



; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17468  
; LENGTH: 88906  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(88906)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-17468

Query Match 72.2%; Score 36.8; DB 4; Length 88906;  
Best Local Similarity 85.4%; Pred. No. 0.0022;  
Matches 41; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 CCCATCTCTTTTACACACACACACACACAAATATCT 48  
DB 76651 CACATCTCTTTCTTCAACACACACACACACAGTTCT 76604

RESULT 3  
US-09-513-999C-13589/C  
; Sequence 13589, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J. B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J. Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 13589  
; LENGTH: 182  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-513-999C-13589

Query Match 70.6%; Score 36; DB 4; Length 182;  
Best Local Similarity 88.6%; Pred. No. 0.0012;  
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTCTTTCTTTACACACACACACACACAAATATCT 48  
DB 180 TCTCTTTCTTTACACACACACACACACAAATATAT 137

RESULT 4  
US-09-949-016-17009  
; Sequence 17009, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 17009  
; LENGTH: 205163  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-17009

Query Match 69.4%; Score 35.4; DB 4; Length 205163;  
Best Local Similarity 97.3%; Pred. No. 0.0079;  
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 14 TTRACACACACACACACACACAAATATCTGA 50  
DB 136078 TTRACACACACACACACACACAAATATCTGA 136114

RESULT 5  
US-09-949-016-11808/C  
; Sequence 11808, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11808  
; LENGTH: 636591  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(636591)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-11808

Query Match 68.6%; Score 35; DB 4; Length 636591;  
Best Local Similarity 80.4%; Pred. No. 0.014;  
Matches 41; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 CCCATCTCTTTTACACACACACACACACAAATATCTGAT 51  
DB 399702 CACATGCCCTTTCTTTAAACACACACACACACAAATTAAGAT 399652

RESULT 6  
US-09-949-016-13388/C  
; Sequence 13388, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13388

```
LENGTH: 636591
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(636591)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13388
```

```
Query Match          68.2%; Score 35; DB 4; Length 636591;
Best Local Similarity 80.4%; Pred. No. 0.014;
Matches 41; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
QY      1  CCCATCTCTTTCTTTACACACACACACACACACAAATATCTGAT 51
Db      399702  CACATGCTTTCTTTAAACACACACACACACACACAAATTAAGAT 399652
```

```
RESULT 7
US-09-949-016-22412/c
Sequence 22412, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22412
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-22412
```

```
Query Match          68.2%; Score 34.8; DB 4; Length 601;
Best Local Similarity 84.8%; Pred. No. 0.0041;
Matches 39; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY      4  ATCTCTTCTTTTACACACACACACACACACAAATATCTG 49
Db      66  ACCTCTTTATACACACACACACACACACACGAAATGTATG 21
```

```
RESULT 8
US-09-949-016-22414/c
Sequence 22414, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22414
LENGTH: 601
```

```
TYPE: DNA
ORGANISM: Human
US-09-949-016-22414
```

```
Query Match          68.2%; Score 34.8; DB 4; Length 601;
Best Local Similarity 84.8%; Pred. No. 0.0041;
Matches 39; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY      4  ATCTCTTCTTTTACACACACACACACACACAAATATCTG 49
Db      386  ACCTCTTTATACACACACACACACACACACGAAATGTATG 341
```

```
RESULT 9
US-09-949-016-154217/c
Sequence 154217, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 154217
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-154217
```

```
Query Match          68.2%; Score 34.8; DB 4; Length 601;
Best Local Similarity 84.8%; Pred. No. 0.0041;
Matches 39; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY      4  ATCTCTTCTTTTACACACACACACACACACAAATATCTG 49
Db      66  ACCTCTTTATACACACACACACACACACACGAAATGTATG 21
```

```
RESULT 10
US-09-949-016-154219/c
Sequence 154219, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 154219
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-154219
```

```
Query Match          68.2%; Score 34.8; DB 4; Length 601;
```





```

; Sequence 142945, Application US/09949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CU001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142945
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-142945

```

```

Query Match      67.8%; Score 34.6; DB 4; Length 601;
Best Local Similarity 90.2%; Pred. No. 0.0048;
Matches 37; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY      2 CCATCTCTTCTTACACACACACACACACACACACAA 42
DB      397 CCATTATTTCAATTACACACACACACACACACACACA 437

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Search completed: September 2, 2005, 03:56:10  
 Job time : 139 secs

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```
RESULT 2
US-10-239-676-2/c
; Sequence 2, Application US/10239676
; Publication No. US20030082609A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
; FILE REFERENCE: 5013.1003
; CURRENT APPLICATION NUMBER: US/10/239,676
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: PCT/EP01/03968
; DE 10019058.8
; DE 10019173.8
; DE 10032529.7
; DE 10043826.1
; PRIOR FILING DATE: 2001-04-06
; CURRENT APPLICATION NUMBER: PCT/EP01/03973
; PRIOR FILING DATE: 2000-04-07
; PRIOR FILING DATE: 2000-06-30
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 228
; SEQ ID NO 2
; LENGTH: 10619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-239-676-2

Query Match          79.2%; Score 40.4; DB 14; Length 10619;
Best Local Similarity 97.6%; Pred. No. 0.00038;
Matches 41; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  CCCATCTCTTCTTTACACACACACACACACACACACAAA 42
Db      6678 CCCATCTCTTCTTTACACACACACACACACACACACACA 6637

RESULT 3
US-10-311-455-44/c
; Sequence 44, Application US/10311455
; Publication No. US20030143606A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining the Methylation Status of Genes Associated with Gene Regulation
; FILE REFERENCE: 5013.1014
; CURRENT APPLICATION NUMBER: US/10/311,455
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07537
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 2424
; SEQ ID NO 44
; LENGTH: 10619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-455-44

Query Match          79.2%; Score 40.4; DB 15; Length 10619;
Best Local Similarity 97.6%; Pred. No. 0.00038;
Matches 41; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1  CCCATCTCTTCTTTACACACACACACACACACACACAAA 42
Db      6678 CCCATCTCTTCTTTACACACACACACACACACACACACA 6637

RESULT 4
US-10-240-453-2/c
; Sequence 2, Application US/10240453
; Publication No. US20030148326A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Methylation Status of Genes Associated with Gene Regulation
; FILE REFERENCE: 5013.1009
; CURRENT APPLICATION NUMBER: US/10/240,453
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03973
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 350
; SEQ ID NO 2
; LENGTH: 10619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-453-2

Query Match          79.2%; Score 40.4; DB 15; Length 10619;
Best Local Similarity 97.6%; Pred. No. 0.00038;
Matches 41; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1  CCCATCTCTTCTTTACACACACACACACACACACACAAA 42
Db      6678 CCCATCTCTTCTTTACACACACACACACACACACACACA 6637

RESULT 5
US-10-240-589C-2/c
; Sequence 2, Application US/10240589C
; Publication No. US20040076956A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
; FILE REFERENCE: 5013.1008
; CURRENT APPLICATION NUMBER: US/10/240,589C
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03972
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 148
; SEQ ID NO 2
```

LENGTH: 10619  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-240-589C-2

Query Match 79.2%; Score 40.4; DB 18; Length 10619;  
Best Local Similarity 97.6%; Pred. No. 0.00038;  
Matches 41; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CCCATCTCTTTTACACACACACACACACACAA 42  
Db 6678 CCCATCTCTTTTACACACACACACACACACACA 6637

RESULT 6  
US-10-674-124A-3039

Sequence 3039, Application US/10674124A  
Publication No. US2004019797A1

GENERAL INFORMATION:

APPLICANT: INOKO, Hidetoshi

APPLICANT: TAMURA, Gen

TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE

FILE REFERENCE: ORIN-003CIP

CURRENT APPLICATION NUMBER: US/10/674,124A

PRIOR FILING DATE: 2003-09-26

PRIOR APPLICATION NUMBER: 10/257,511

PRIOR FILING DATE: 2003-03-07

PRIOR APPLICATION NUMBER: PCT/JP00/07621

PRIOR FILING DATE: 2000-10-30

PRIOR APPLICATION NUMBER: JP2000-112699

PRIOR FILING DATE: 2000-04-13

PRIOR APPLICATION NUMBER: JP2002-327516

PRIOR FILING DATE: 2002-09-28

PRIOR APPLICATION NUMBER: JP2002-383869

PRIOR FILING DATE: 2002-12-09

NUMBER OF SEQ ID NOS: 27110

SEQ ID NO 3039

LENGTH: 400

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: AC010744.4\_97739

FEATURE:

OTHER INFORMATION: Located on chromosome 2

FEATURE:

OTHER INFORMATION: Distance between a terminus base of telomere on

OTHER INFORMATION: chromosomal short arm and 5'-terminus of this base

FEATURE:

OTHER INFORMATION: Distance between 3'-terminus of neighbour sequence of

OTHER INFORMATION: sequence listing upward to telomere on chromosomal short arm and

OTHER INFORMATION: 5'-terminus of this base sequence : 18142

US-10-674-124A-3039

Query Match 75.7%; Score 38.6; DB 19; Length 400;  
Best Local Similarity 91.1%; Pred. No. 0.00087;  
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 5 TCTCTTCTTTACACACACACACACAAATATCTG 49  
Db 178 TCTCTCTATATACACACACACACACACACATATATG 222

RESULT 7  
US-10-674-124A-10920

Sequence 10920, Application US/10674124A

Publication No. US2004019797A1

GENERAL INFORMATION:

APPLICANT: INOKO, Hidetoshi

APPLICANT: TAMURA, Gen

TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE  
FILE REFERENCE: ORIN-003CIP  
CURRENT APPLICATION NUMBER: US/10/674,124A  
CURRENT FILING DATE: 2003-09-26  
PRIOR APPLICATION NUMBER: 10/257,511  
PRIOR FILING DATE: 2003-03-07  
PRIOR APPLICATION NUMBER: PCT/JP00/07621  
PRIOR FILING DATE: 2000-10-30  
PRIOR APPLICATION NUMBER: JP2000-112699  
PRIOR FILING DATE: 2000-04-13  
PRIOR APPLICATION NUMBER: JP2002-327516  
PRIOR FILING DATE: 2002-09-28  
PRIOR APPLICATION NUMBER: JP2002-383869  
PRIOR FILING DATE: 2002-12-09  
NUMBER OF SEQ ID NOS: 27110  
SEQ ID NO 10920

LENGTH: 154

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: D6S988

FEATURE:

OTHER INFORMATION: Located on chromosome 6

FEATURE:

OTHER INFORMATION: Distance between a terminus base of telomere on

OTHER INFORMATION: chromosomal short arm and 5'-terminus of this base

FEATURE:

OTHER INFORMATION: sequence : 131608898

OTHER INFORMATION: Distance between 3'-terminus of neighbour sequence of

OTHER INFORMATION: sequence listing upward to telomere on chromosomal short arm and

OTHER INFORMATION: 5'-terminus of this base sequence : 107348

US-10-674-124A-10920

Query Match 73.3%; Score 37.4; DB 19; Length 154;  
Best Local Similarity 87.2%; Pred. No. 0.0019;  
Matches 41; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 5 TCTCTTCTTTACACACACACACACAAATATCTGAT 51  
Db 76 TCTCTTCTGACACACACACACACACACACTCTCTCAT 122

RESULT 8  
US-10-357-930-55243

Sequence 55243, Application US/10357930

Publication No. US20040259086A1

GENERAL INFORMATION:

APPLICANT: Schlegel, Robert

APPLICANT: Endege, Wilson

APPLICANT: Monahan, John

TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR

TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF

FILE REFERENCE: MRI-007BCN

CURRENT APPLICATION NUMBER: US/10/357,930

PRIOR FILING DATE: 2003-02-04

PRIOR APPLICATION NUMBER: 09/785,276

PRIOR FILING DATE: 2003-02-16

PRIOR APPLICATION NUMBER: 60/183,319

PRIOR FILING DATE: 2000-02-17

PRIOR APPLICATION NUMBER: 60/189,862

PRIOR FILING DATE: 2000-03-16

PRIOR APPLICATION NUMBER: 60/207,454

PRIOR FILING DATE: 2000-05-25

PRIOR APPLICATION NUMBER: 60/211,314

PRIOR FILING DATE: 2000-06-09

PRIOR APPLICATION NUMBER: 60/219,007

PRIOR FILING DATE: 2000-07-18

PRIOR APPLICATION NUMBER: 60/255,281

PRIOR FILING DATE: 2000-12-13

NUMBER OF SEQ ID NOS: 62232

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 55243  
LENGTH: 621  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 31  
OTHER INFORMATION: n = A,T,C or G  
US-10-357-930-55243

Query Match 72.5%; Score 37; DB 20; Length 621;  
Best Local Similarity 88.9%; Pred. No. 0.0034;  
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 TCTCTTCTTACACACACACACACACAAATATCTG 49  
DB 161 TCTCTCTTACACACACACACACACACAAATTAAGTCTG 205

## RESULT 9

US-10-160-807-4/c  
Sequence 4, Application US/10160807  
Publication No. US2003024514A1  
GENERAL INFORMATION:  
APPLICANT: William Gaarde  
APPLICANT: Susan M. Freier  
APPLICANT: Andrew T. Walt  
TITLE OF INVENTION: ANTISENSE MODULATION OF PPAR-DELTA EXPRESSION  
FILE REFERENCE: RTS-0189  
CURRENT APPLICATION NUMBER: US/10/160,807  
CURRENT FILING DATE: 2002-05-31  
NUMBER OF SEQ ID NOS: 296  
SEQ ID NO 4  
LENGTH: 104245  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
US-10-160-807-4

Query Match 72.2%; Score 36.8; DB 17; Length 104245;  
Best Local Similarity 85.4%; Pred. No. 0.01;  
Matches 41; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 CCCATCTCTTCTTTACACACACACACACACAAATATCT 48  
DB 90002 CACATCTCTTCTTTCAACACACACACACACACAGGTCT 89955

RESULT 10  
US-10-655-847-4/c  
Sequence 4, Application US/10655847  
Publication No. US20040063129A1  
GENERAL INFORMATION:  
APPLICANT: William Gaarde  
APPLICANT: Susan M. Freier  
APPLICANT: Andrew T. Walt  
TITLE OF INVENTION: ANTISENSE MODULATION OF PPAR-DELTA EXPRESSION  
FILE REFERENCE: RTS-0189  
CURRENT APPLICATION NUMBER: US/10/655,847  
CURRENT FILING DATE: 2003-09-05  
PRIOR APPLICATION NUMBER: US/10/160,807  
PRIOR FILING DATE: 2003-09-05  
NUMBER OF SEQ ID NOS: 296  
SEQ ID NO 4  
LENGTH: 104245  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
US-10-655-847-4

Query Match 72.2%; Score 36.8; DB 18; Length 104245;  
Best Local Similarity 85.4%; Pred. No. 0.01;  
Matches 41; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 CCCATCTCTTCTTTACACACACACACACACAAATATCT 48  
DB 90002 CACATCTCTTCTTTCAACACACACACACACACAGGTCT 89955

RESULT 11  
US-10-717-597-322  
Sequence 322, Application US/10717597  
Publication No. US20040110221A1  
GENERAL INFORMATION:  
APPLICANT: Myeth  
APPLICANT: Butczynski, Michael E.  
APPLICANT: Twine, Natalie C.  
APPLICANT: Dorneier, Andrew J.  
APPLICANT: Trepicchio, William L.  
APPLICANT: Stonim, Donna K.  
APPLICANT: Stover, Jennifer A.  
TITLE OF INVENTION: METHODS FOR DIAGNOSING RCC AND OTHER SOLID TUMORS  
FILE REFERENCE: AM101080L  
CURRENT APPLICATION NUMBER: US/10/717,597  
CURRENT FILING DATE: 2003-11-21  
PRIOR APPLICATION NUMBER: US 60/459,782  
PRIOR FILING DATE: 2003-04-03  
PRIOR APPLICATION NUMBER: US 60/427,982  
PRIOR FILING DATE: 2002-11-21  
NUMBER OF SEQ ID NOS: 4904  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 322  
LENGTH: 170245  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-717-597-322

Query Match 72.2%; Score 36.8; DB 19; Length 170245;  
Best Local Similarity 85.4%; Pred. No. 0.011;  
Matches 41; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 CCCATCTCTTCTTTACACACACACACACACAAATATCT 48  
DB 80244 CACATCTCTTCTTTCAACACACACACACACACAGGTCT 80291

RESULT 12  
US-10-674-124A-18213  
Sequence 18213, Application US/10674124A  
Publication No. US2004019797A1  
GENERAL INFORMATION:  
APPLICANT: INOKO, Hidetoshi  
APPLICANT: TAMIYA, Gen  
TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE  
FILE REFERENCE: ORIN-003C1P  
CURRENT APPLICATION NUMBER: US/10/674,124A  
CURRENT FILING DATE: 2003-09-26  
PRIOR APPLICATION NUMBER: 10/257,511  
PRIOR FILING DATE: 2003-03-07  
PRIOR APPLICATION NUMBER: PCT/JP00/07621  
PRIOR FILING DATE: 2000-10-30  
PRIOR APPLICATION NUMBER: JP2000-112699  
PRIOR FILING DATE: 2000-04-13  
PRIOR APPLICATION NUMBER: JP2002-327516  
PRIOR FILING DATE: 2002-09-28  
PRIOR APPLICATION NUMBER: JP2002-383869  
PRIOR FILING DATE: 2002-12-09  
NUMBER OF SEQ ID NOS: 27110  
SEQ ID NO 18213  
LENGTH: 419  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: AC004802.1\_36841

```

; OTHER INFORMATION: Located on chromosome 12
; FEATURE:
; OTHER INFORMATION: Distance between a terminus base of telomere on
; OTHER INFORMATION: chromosomal short arm and 5'-terminus of this base
; OTHER INFORMATION: sequence : 1189010
; FEATURE:
; OTHER INFORMATION: Distance between 3'-terminus of neighbour sequence of
; OTHER INFORMATION: sequence listing upward to telomere on chromosomal short arm and
; OTHER INFORMATION: 5'-terminus of this base sequence : 223511
US-10-674-124A-18213

Query Match
Best Local Similarity 71.0%; Score 36.2; DB 19; Length 419;
Pred. No. 0.006; Mismatches 8; Indels 0; Gaps 0;
Matches 41; Conservative 0;

1 CCCATCTCTTTCTTTACACACACACACACACACAAATATCTG 49
243 CCCATGTGTCTTTATACACACACACACACACACACACTTCTG 291

RESULT 13
US-10-027-632-259460/c
; Sequence 259460, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027, 632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 259460
; LENGTH: 657
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-259460

Query Match
Best Local Similarity 70.6%; Score 36; DB 13; Length 657;
Pred. No. 0.0076; Mismatches 0; Indels 0; Gaps 0;
Matches 36; Conservative 0;

5 TCTCTTTCTTTACACACACACACACACACAAATATCTG 40
174 TCTCTTTCTTTACACACACACACACACACACACACACA 139

RESULT 14
US-10-027-632-259460/c
; Sequence 259460, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027, 632
; CURRENT FILING DATE: 2002-04-30
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; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 259460
; LENGTH: 657
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-259460

Query Match
Best Local Similarity 70.6%; Score 36; DB 17; Length 657;
Pred. No. 0.0076; Mismatches 0; Indels 0; Gaps 0;
Matches 36; Conservative 0;

5 TCTCTTTCTTTACACACACACACACACACAAATATCTG 40
174 TCTCTTTCTTTACACACACACACACACACACACACACA 139

RESULT 15
US-10-756-149-1160/c
; Sequence 1160, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1160
; LENGTH: 754
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-756-149-1160

Query Match
Best Local Similarity 70.6%; Score 36; DB 22; Length 754;
Pred. No. 0.0078; Mismatches 5; Indels 0; Gaps 0;
Matches 39; Conservative 0;

5 TCTCTTTCTTTACACACACACACACACACAAATATCTG 48
311 TCTCTTTCTTTACACACACACACACACACACACAAATAT 268

Search completed: September 2, 2005, 08:46:09
Job time : 3976 secs
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## OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 19:10:18 ; Search time 4.6877 Seconds

(without alignments)  
7679.264 Million cell updates/sec

Title: US-09-909-317-1

Perfect score: 22  
Sequence: 1 gattccccatctctctcttc 22Scoring table: IDENTITY NUC  
Gapop 10'-0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
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Maximum Match 100%

Listing first 45 summaries

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6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	100.0	22	US-09-280-181B-1	Sequence 1, Appl1
2	18.4	83.6	34408	US-09-949-016-14010	Sequence 14010, A
3	17.8	80.9	366	US-09-248-796A-10881	Sequence 10881, A
4	17.8	80.9	601	US-09-949-016-80901	Sequence 80901, A
5	17.8	80.9	601	US-09-949-016-111397	Sequence 111397, A
6	17.8	80.9	711	US-09-248-796A-2809	Sequence 2809, Ap
7	17.8	80.9	45086	US-09-949-016-14816	Sequence 14816, A
8	17.8	80.9	49378	US-09-949-016-13408	Sequence 13408, A
9	17.8	80.9	199471	US-09-949-016-14083	Sequence 14083, A
10	17.4	79.1	601	US-09-949-016-69074	Sequence 69074, A
11	17.4	79.1	601	US-09-949-016-137497	Sequence 137497, A
12	17.4	79.1	19503	US-09-949-016-16528	Sequence 16528, A
13	17.4	79.1	53336	US-09-949-016-12500	Sequence 12500, A
14	17.4	79.1	53337	US-09-949-016-16092	Sequence 16092, A
15	17.4	79.1	58844	US-09-949-016-13769	Sequence 13769, A
16	17.4	79.1	96739	US-09-949-016-15606	Sequence 15606, A
17	17.2	78.2	429	US-09-621-976-9098	Sequence 9098, Ap
18	17.2	78.2	813	US-09-308-386A-2	Sequence 2, Appl1
19	17.2	78.2	1087	US-09-372-422A-29	Sequence 29, Appl1
20	17.2	78.2	5357	US-09-979-765-1	Sequence 1, Appl1
21	17.2	78.2	16216	US-09-949-016-17377	Sequence 17377, A
22	17.2	78.2	41454	US-09-949-016-17107	Sequence 17107, A
23	17.2	78.2	46085	US-09-949-016-13547	Sequence 13547, A
24	17.2	78.2	46085	US-09-949-016-13547	Sequence 13547, A
25	17.2	78.2	85122	US-09-949-016-14693	Sequence 14693, A
26	17.2	78.2	98864	US-09-949-016-15403	Sequence 15403, A
27	17.2	78.2	114793	US-10-148-806-3	Sequence 3, Appl1

C	28	17.2	78.2	119214	4	US-09-949-016-12507	Sequence 12507, A
	29	17.2	78.2	237863	4	US-09-949-016-13404	Sequence 13404, A
	30	16.8	76.4	170	4	US-09-513-999C-29029	Sequence 29029, A
	31	16.8	76.4	301	2	US-08-332-766A-23	Sequence 23, Appl1
	32	16.8	76.4	344	4	US-09-513-999C-32790	Sequence 32790, A
	33	16.8	76.4	521	3	US-09-408-744A-10	Sequence 10, Appl1
	34	16.8	76.4	601	4	US-09-949-016-53550	Sequence 53550, A
	35	16.8	76.4	601	4	US-09-949-016-133079	Sequence 133079, A
	36	16.8	76.4	601	4	US-09-949-016-133080	Sequence 133080, A
	37	16.8	76.4	601	4	US-09-949-016-140928	Sequence 140928, A
	38	16.8	76.4	601	4	US-09-949-016-156380	Sequence 156380, A
	39	16.8	76.4	601	4	US-09-949-016-160881	Sequence 160881, A
	40	16.8	76.4	601	4	US-09-949-016-160882	Sequence 160882, A
	41	16.8	76.4	601	4	US-09-949-016-196595	Sequence 196595, A
	42	16.8	76.4	601	4	US-09-949-016-196596	Sequence 196596, A
	43	16.8	76.4	601	4	US-09-949-016-202254	Sequence 202254, A
	44	16.8	76.4	675	4	US-09-248-796A-2987	Sequence 2987, Ap
	45	16.8	76.4	865	4	US-09-270-767-4587	Sequence 4587, Ap

## ALIGNMENTS

```
RESULT 1
US-09-280-181B-1
; Sequence 1, Application US/09280181B
; Patent No. 6280941
; GENERAL INFORMATION:
; APPLICANT: Betty P. Tsao (Inventor)
; APPLICANT: Rita M. Cantor (Inventor)
; APPLICANT: Jerome I. Rotter (Inventor)
; TITLE OF INVENTION: Genetic Marker Test for Lupus
; FILE REFERENCE: P07 41735
; CURRENT APPLICATION NUMBER: US/09/280,181B
; CURRENT FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-280-181B-1

Query Match      100.0%; Score 22; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GATTTCCCATCTCTCTTTCTT 22
Db      1 GATTTCCCATCTCTCTTTCTT 22

RESULT 2
US-09-949-016-14010/C
; Sequence 14010, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14010
; LENGTH: 34408
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TYPE: DNA  
ORGANISM: Human  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1) (34408)  
OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14010

Query Match 83.6%; Score 18.4; DB 4; Length 34408;  
Best Local Similarity 95.0%; Pred. No. 1e+02;  
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TTCCCATCTCTCTTCTTT 22  
DB 1839 TTCCCATCTCTCTTCTTT 1820

RESULT 3  
US-09-248-796A-10881  
Sequence 10881, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 10881  
LENGTH: 366  
TYPE: DNA  
ORGANISM: Candida albicans  
US-09-248-796A-10881

Query Match 80.9%; Score 17.8; DB 4; Length 366;  
Best Local Similarity 90.5%; Pred. No. 1.1e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTTT 22  
DB 138 ATTCCCATCTCTGTTCCTT 158

RESULT 4  
US-09-949-016-80901  
Sequence 80901, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 80901  
LENGTH: 601  
TYPE: DNA  
ORGANISM: Human  
US-09-949-016-80901

Query Match 80.9%; Score 17.8; DB 4; Length 601;  
Best Local Similarity 90.5%; Pred. No. 1.2e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTTT 22  
DB 227 ATTCCCATCTCTCTCCTTT 247

RESULT 5  
US-09-949-016-111397/C  
Sequence 111397, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 111397  
LENGTH: 601  
TYPE: DNA  
ORGANISM: Human  
US-09-949-016-111397

Query Match 80.9%; Score 17.8; DB 4; Length 601;  
Best Local Similarity 90.5%; Pred. No. 1.2e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTTT 22  
DB 36 ATTCCCATCTCTGTTCCTT 16

RESULT 6  
US-09-248-796A-2809/C  
Sequence 2809, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 2809  
LENGTH: 711  
TYPE: DNA  
ORGANISM: Candida albicans  
US-09-248-796A-2809

Query Match 80.9%; Score 17.8; DB 4; Length 711;  
Best Local Similarity 90.5%; Pred. No. 1.2e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTTT 22  
DB 600 ATTCCCATCTCTGTTCCTT 580

RESULT 7  
US-09-949-016-14816  
; Sequence 14816, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 14816  
; LENGTH: 45086  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-14816

Query Match 80.9%; Score 17.8; DB 4; Length 45086;  
Best Local Similarity 90.5%; Pred. No. 1.9e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTT 22  
Db 30163 ATTCCCATCTCTCTTCTT 30183

RESULT 8  
US-09-949-016-13408  
; Sequence 13408, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14,755  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 13408  
; LENGTH: 49378  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-13408

Query Match 80.9%; Score 17.8; DB 4; Length 49378;  
Best Local Similarity 90.5%; Pred. No. 2e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTT 22  
Db 5375 ATTCCCATCTCTCTTCTT 5395

RESULT 9  
US-09-949-016-14083/c  
; Sequence 14083, Application US/09949016  
; Patent No. 6812339

; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 14083  
; LENGTH: 199471  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURES:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(199471)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14083

Query Match 80.9%; Score 17.8; DB 4; Length 199471;  
Best Local Similarity 90.5%; Pred. No. 2.3e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTT 22  
Db 25857 ATTCCCATCTCTCTTCTT 25837

RESULT 10  
US-09-949-016-69074/c  
; Sequence 69074, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14,755  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 69074  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-69074

Query Match 79.1%; Score 17.4; DB 4; Length 601;  
Best Local Similarity 94.7%; Pred. No. 1.8e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ATTCCCATCTCTCTTCTT 20  
Db 331 ATTCCCATCTCTCTTCTT 313

RESULT 11  
US-09-949-016-137497/c  
; Sequence 137497, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:

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/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 137497
/ LENGTH: 601
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-137497
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Query Match          79.1%; Score 17.4; DB 4; Length 601;
Best Local Similarity 94.7%; Pred. No. 1.8e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 GATTTCCCATCTCTCTTTC 19
Db 539 GATTTCCCATCTCTCTTTC 521
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RESULT 12
US-09-949-016-16528/c
/ Sequence 16528, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 16528
/ LENGTH: 19503
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-16528
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Query Match          79.1%; Score 17.4; DB 4; Length 19503;
Best Local Similarity 94.7%; Pred. No. 2.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 4 TCCCATCTCTCTTCTTT 22
Db 3766 TCCCATCTCTCTTCTTT 3748
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RESULT 13
US-09-949-016-12500
/ Sequence 12500, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
```

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/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 12500
/ LENGTH: 53336
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-12500
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Query Match          79.1%; Score 17.4; DB 4; Length 53336;
Best Local Similarity 94.7%; Pred. No. 2.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 4 TCCCATCTCTCTTCTTT 22
Db 8772 TCCCATCTCTCTTCTTT 8790
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RESULT 14
US-09-949-016-16092
/ Sequence 16092, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 16092
/ LENGTH: 53337
/ TYPE: DNA
/ ORGANISM: Human
US-09-949-016-16092
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```
Query Match          79.1%; Score 17.4; DB 4; Length 53337;
Best Local Similarity 94.7%; Pred. No. 2.9e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 4 TCCCATCTCTCTTCTTT 22
Db 8772 TCCCATCTCTCTTCTTT 8790
```

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RESULT 15
US-09-949-016-13769
/ Sequence 13769, Application US/09949016
/ Patent No. 6812339
/ GENERAL INFORMATION:
/ APPLICANT: VENTER, J. Craig et al.
/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
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; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13769  
; LENGTH: 58844  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-13769

Query Match 79.1%; Score 17.4; DB 4; Length 58844;  
Best Local Similarity 94.7%; Pred. No. 3e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 ATTCCCATCTCTTCT 20  
Db 16891 ATTCCCATCTCTCTCT 16909

Search completed: September 1, 2005, 20:40:35  
Job time : 7.6877 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 20:20:43 ; Search time 23.2273 Seconds  
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Perfect score: 1 gattcccatctctctctc 22  
Sequence: 1 gattcccatctctctctc 22

Scoring table: IDENTITY NUC  
Gap 10\_0, Gapext 1\_0

Searched: 7338684 seqs, 3274456166 residues

Total number of hits satisfying chosen parameters: 14677368

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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12:	/cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13:	/cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
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22:	/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
23:	/cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
24:	/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	22	100.0	22	11	US-09-909-317-1
2	20	90.9	650	13	US-10-027-632-190184
3	20	90.9	650	17	US-10-027-632-190184
4	19	86.4	32189	9	US-09-764-878-379
5	19	86.4	32189	14	US-10-079-854-379
6	19	86.4	32221	9	US-09-764-878-377
7	19	86.4	32221	14	US-10-079-854-377

C	8	18.8	85.5	1334	15	US-10-180-375-7	Sequence 7, Appli
C	9	18.8	85.5	1334	17	US-10-183-687-23	Sequence 23, Appli
C	10	18.4	83.6	284	18	US-10-424-599-92893	Sequence 92893, A
C	11	18.4	83.6	1309	15	US-10-424-599-59036	Sequence 59036, A
C	12	18.4	83.6	6351	18	US-10-311-455-1419	Sequence 1419, Ap
C	13	18.4	83.6	6351	17	US-10-221-613-191	Sequence 191, App
C	14	18.4	83.6	23655	19	US-10-433-793-11	Sequence 11, Appli
C	15	18.4	83.6	54016	21	US-10-741-600-17886	Sequence 17886, A
C	16	18.4	83.6	127678	21	US-10-461-862-9	Sequence 9, Appli
C	17	18.4	83.6	189817	21	US-10-741-601-5660	Sequence 5660, Ap
C	18	18.4	83.6	189817	21	US-10-741-600-17685	Sequence 17685, A
C	19	18.4	83.6	189817	21	US-10-741-600-17685	Sequence 26433, A
C	20	18.4	83.6	500	18	US-10-085-783A-26433	Sequence 26433, A
C	21	18.4	83.6	73764	19	US-10-741-601-5616	Sequence 5616, Ap
C	22	17.8	80.9	324	18	US-10-424-599-31004	Sequence 31004, A
C	23	17.8	80.9	363	13	US-10-674-124A-23460	Sequence 23460, A
C	24	17.8	80.9	571	13	US-10-027-632-206913	Sequence 206913, A
C	25	17.8	80.9	571	13	US-10-027-632-206913	Sequence 206915, A
C	26	17.8	80.9	571	13	US-10-027-632-206913	Sequence 206913, A
C	27	17.8	80.9	571	17	US-10-027-632-206915	Sequence 206915, A
C	28	17.8	80.9	671	20	US-10-425-115-48053	Sequence 48053, A
C	29	17.8	80.9	1143	13	US-10-027-632-206914	Sequence 206914, A
C	30	17.8	80.9	7819	15	US-10-311-485-1925	Sequence 1925, Ap
C	31	17.8	80.9	7819	15	US-10-240-485-159	Sequence 159, App
C	32	17.8	80.9	20158	20	US-10-719-993-6760	Sequence 6760, Ap
C	33	17.8	80.9	49600	18	US-10-459-262A-3	Sequence 3, Appli
C	34	17.8	80.9	91552	18	US-10-415-058-5	Sequence 5, Appli
C	35	17.8	80.9	96595	11	US-09-997-722-43	Sequence 43, Appli
C	36	17.8	80.9	2940917	13	US-10-027-632-174763	Sequence 174763, A
C	37	17.8	80.9	2940917	17	US-10-027-632-174763	Sequence 174763, A
C	38	17.8	80.9	2940917	21	US-10-741-600-26828	Sequence 26828, A
C	39	17.4	79.1	201	13	US-10-027-632-101998	Sequence 101998, A
C	40	17.4	79.1	720	17	US-10-027-632-101998	Sequence 101998, A
C	41	17.4	79.1	720	17	US-10-027-632-101998	Sequence 94947, A
C	42	17.4	79.1	1386	18	US-10-424-559-94947	Sequence 12634, A
C	43	17.4	79.1	1420	19	US-10-767-701-12634	Sequence 12634, A
C	44	17.4	79.1	1446	17	US-10-203-319A-22	Sequence 22, Appli
C	45	17.4	79.1	1446	17	US-10-203-319A-24	Sequence 24, Appli

## ALIGNMENTS

RESULT 1  
US-09-909-317-1  
; Sequence 1, Application US/0909317  
; Publication No. US20040152075A1  
; GENERAL INFORMATION:  
; APPLICANT: Betty P. Tsao (Inventor)  
; APPLICANT: Rita M. Cantor (Inventor)  
; APPLICANT: Jerome I. Rotter (Inventor)  
; TITLE OF INVENTION: Genetic Marker Test for Lupus  
; FILE REFERENCE: 18810-82152  
; CURRENT APPLICATION NUMBER: US/09/909,317  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: 09/280,181  
; PRIOR FILING DATE: 1999-03-29  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 22  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-909-317-1

Query Match	100.0%	Score 22;	DB 11;	Length 22;
Best Local Similarity	100.0%	Pred. No. 6.7;		
Matches	22;	Conservative 0;	Mismatches 0;	Indels 0;
				Gaps 0;
QY	1	GATTCCTCATCTCTCTCTTT	22	
DB	1	GATTCCTCATCTCTCTCTTT	22	

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RESULT 2
US-10-027-632-190184/c
; Sequence 190184, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 190184
; LENGTH: 650
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-190184

Query Match
Best Local Similarity 90.9%; Score 20; DB 13; Length 650;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTCCCATCTCTCTTCTT 22
Db 161 TTCCCATCTCTCTTCTT 142

RESULT 3
US-10-027-632-190184/c
; Sequence 190184, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 190184
; LENGTH: 650
; TYPE: DNA
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; ORGANISM: Human
US-10-027-632-190184

Query Match
Best Local Similarity 90.9%; Score 20; DB 17; Length 650;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 TTCCCATCTCTCTTCTT 22
Db 161 TTCCCATCTCTCTTCTT 142

RESULT 4
US-09-764-878-379/c
; Sequence 379, Application US/09764878
; Patent No. US20020090615A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA121
; CURRENT APPLICATION NUMBER: US/09/764,878
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PAM or file wrapper
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 379
; LENGTH: 32189
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-878-379

Query Match
Best Local Similarity 86.4%; Score 19; DB 9; Length 32189;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TTCCCATCTCTCTTCTT 22
Db 19817 TTCCCATCTCTCTTCTT 19799

RESULT 5
US-10-079-854-379/c
; Sequence 379, Application US/10079854
; Publication No. US20030054368A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA121C1
; CURRENT APPLICATION NUMBER: US/10/079,854
; CURRENT FILING DATE: 2002-02-22
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 379
; LENGTH: 32189
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-079-854-379

Query Match
Best Local Similarity 86.4%; Score 19; DB 14; Length 32189;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TTCCCATCTCTCTTCTT 22
Db 19817 TTCCCATCTCTCTTCTT 19799

RESULT 6
US-09-764-878-377/c
; Sequence 377, Application US/09764878
; Patent No. US20020090615A1
; GENERAL INFORMATION:
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; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA121
; CURRENT APPLICATION NUMBER: US/09/764,878
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 377
; LENGTH: 32221
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (7464)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-764-878-377
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Query Match      86.4%; Score 19; DB 9; Length 32221;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      4 TCCCAATCTCTCTTTCTTT 22
Db      19848 TCCCAATCTCTCTTTCTTT 19830
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RESULT 7
US-10-079-854-377/c
; Sequence 377, Application US/10079854
; Publication No. US20030054368A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA121C1
; CURRENT APPLICATION NUMBER: US/10/079,854
; CURRENT FILING DATE: 2002-02-22
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 428
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 377
; LENGTH: 32221
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (7464)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-079-854-377
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Query Match      86.4%; Score 19; DB 14; Length 32221;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      4 TCCCAATCTCTCTTTCTTT 22
Db      19848 TCCCAATCTCTCTTTCTTT 19830
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RESULT 8
US-10-180-375-7/c
; Sequence 7, Application US/10180375
; Publication No. US20030126638A1
; GENERAL INFORMATION:
; APPLICANT: Allen, William B.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Harvell, Leslie T.
; APPLICANT: Helentjaris, Timothy
; APPLICANT: Li, Changjiang
; APPLICANT: Lowe, Keith
; APPLICANT: Oliveira, Igor Cunha
; APPLICANT: Shen, Bo
```

```

; APPLICANT: Tarczyński, Mitchell C.
; TITLE OF INVENTION: Alteration Of Oil Traits In Plants
; FILE REFERENCE: B1458 US NA1
; CURRENT APPLICATION NUMBER: US/10/180,375
; CURRENT FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 222
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 7
; LENGTH: 1334
; TYPE: DNA
; ORGANISM: Vitis sp.
US-10-180-375-7
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```

Query Match      85.5%; Score 18.8; DB 15; Length 1334;
Best Local Similarity 90.9%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 GATTCCCAATCTCTGTCTTT 22
Db      1238 GATTCCCAATCTCTGTCTTT 1217
```

```

RESULT 9
US-10-183-687-23/c
; Sequence 23, Application US/10183687
; Publication No. US20030204870A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Allen, William B.
; APPLICANT: Cahoon, Rebecca
; APPLICANT: Ebelbaum, Sabine
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Harvell, Leslie T.
; APPLICANT: Jones, Todd
; APPLICANT: Kinney, Tony
; APPLICANT: Klein, Ted
; APPLICANT: Li, Changjiang
; APPLICANT: Oliveira, Igor Cunha
; APPLICANT: Sakai, Hajime
; APPLICANT: Shen, Bo
; APPLICANT: Tarczyński, Mitchell C.
; TITLE OF INVENTION: Alteration Of Oil Traits In Plants
; FILE REFERENCE: B1458 US NA
; CURRENT APPLICATION NUMBER: US/10/183,687
; CURRENT FILING DATE: 2002-06-27
; Prior Application Number: 60/301,913
; Prior Filing Date: 2001-06-29
; NUMBER OF SEQ ID NOS: 532
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 1334
; TYPE: DNA
; ORGANISM: Vitis sp.
US-10-183-687-23
```

```

Query Match      85.5%; Score 18.8; DB 17; Length 1334;
Best Local Similarity 90.9%; Pred. No. 1.9e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 GATTCCCAATCTCTGTCTTT 22
Db      1238 GATTCCCAATCTCTGTCTTT 1217
```

```

RESULT 10
US-10-424-599-92893/c
; Sequence 92893, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
```

```

/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 92893
/ LENGTH: 284
/ TYPE: DNA
/ ORGANISM: Glycine max
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(284)
/ OTHER INFORMATION: unsure at all n locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_54898C.1
/ US-10-424-599-92893

```

```

Query Match      83.6%; Score 18.4; DB 18; Length 284;
Best Local Similarity 95.0%; Pred. No. 2.6e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      49 TTCCCATCTCTCTGTTT 30

```

```

RESULT 11
US-10-424-599-59036/c
/ Sequence 59036, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 59036
/ LENGTH: 1309
/ TYPE: DNA
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_24320C.1
/ US-10-424-599-59036

```

```

Query Match      83.6%; Score 18.4; DB 18; Length 1309;
Best Local Similarity 95.0%; Pred. No. 2.8e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      57 TTCCCATCTCTCTGTTT 38

```

```

RESULT 12
US-10-311-455-1419/c
/ Sequence 1419, Application US/10311455
/ Publication No. US20030143606A1
/ GENERAL INFORMATION:
/ APPLICANT: OLEK, Alexander
/ APPLICANT: PIEPENBROCK, Christian
/ APPLICANT: BERLIN, Kurt
/ TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining
/ TITLE OF INVENTION: Cytosine methylation
/ FILE REFERENCE: 5013.1014
/ CURRENT APPLICATION NUMBER: US/10/311,455
/ CURRENT FILING DATE: 2002-12-16
/ PRIOR APPLICATION NUMBER: PCT/EP01/07537

```

```

/ PRIOR FILING DATE: 2001-07-02
/ PRIOR APPLICATION NUMBER: DE 10032529.7
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: DE 10043826.1
/ PRIOR FILING DATE: 2000-09-01
/ NUMBER OF SEQ ID NOS: 2424
/ SEQ ID NO 1419
/ LENGTH: 6351
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
/ US-10-311-455-1419

```

```

Query Match      83.6%; Score 18.4; DB 15; Length 6351;
Best Local Similarity 95.0%; Pred. No. 3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      4736 TTCCCATCTCTCTTTCTT 4717

```

```

RESULT 13
US-10-221-613-191/c
/ Sequence 191, Application US/10221613
/ Publication No. US20040029123A1
/ GENERAL INFORMATION:
/ APPLICANT: OLEK, Alexander
/ APPLICANT: PIEPENBROCK, Christian
/ APPLICANT: BERLIN, Kurt
/ TITLE OF INVENTION: Diagnosis of Diseases Associated with Cell Cycle
/ FILE REFERENCE: 5013.1004
/ CURRENT APPLICATION NUMBER: US/10/221,613
/ CURRENT FILING DATE: 2002-09-13
/ PRIOR APPLICATION NUMBER: PCT/EP01/02945
/ DE 10013847.00
/ DE 10019058.8
/ DE 10019173.8
/ DE 10032529.7
/ DE 10043826.1
/ PRIOR FILING DATE: 2001-03-15
/ 2000-03-15
/ 2000-04-06
/ 2000-04-07
/ 2000-06-30
/ 2000-09-01
/ NUMBER OF SEQ ID NOS: 428
/ SEQ ID NO 191
/ LENGTH: 6351
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
/ US-10-221-613-191

```

```

Query Match      83.6%; Score 18.4; DB 17; Length 6351;
Best Local Similarity 95.0%; Pred. No. 3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      4736 TTCCCATCTCTCTTTCTT 4717

```

```

RESULT 14
US-10-433-793-11/c
/ Sequence 11, Application US/10433793
/ Publication No. US20040142334A1
/ GENERAL INFORMATION:
/ APPLICANT: Epigenomics AG
/ TITLE OF INVENTION: Diagnose von mit Angiogenese assoziierten Krankheiten
/ FILE REFERENCE:

```

```

; CURRENT APPLICATION NUMBER: US/10/433,793
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 212
; SEQ ID NO 11
; LENGTH: 23695
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically created genomic DNA (Homo sapiens)
US-10-433-793-11

```

```

Query Match      83.6%; Score 18.4; DB 19; Length 23695;
Best Local Similarity 95.0%; Pred. No. 3.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      4736 TTCCCATCTCTCTTTCTT 4717

```

```

RESULT 15
US-10-741-600-17886/c
; Sequence 17886, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17886
; LENGTH: 54016
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(54016)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-741-600-17886

```

```

Query Match      83.6%; Score 18.4; DB 21; Length 54016;
Best Local Similarity 95.0%; Pred. No. 3.3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 TTCCCATCTCTCTTTCTT 22
         |||||
Db      5841 TTCCCATCTCTCTTTCTT 5822

```

Search completed: September 2, 2005, 03:53:45  
Job time : 30.2273 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 19:10:18 ; Search time 4.26155 Seconds  
(without alignments)  
7679.264 Million cell updates/sec

Title: US-09-909-317-2  
Perfect score: 20  
Sequence: 1 aaattggtgtaactgca 20

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*  
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2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PTCUTS COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	US-09-280-181B-2	Sequence 2, Appl
2	16.8	84.0	325	US-08-956-171E-1722	Sequence 1722, Ap
3	16.8	84.0	325	US-08-781-986A-1722	Sequence 1722, Ap
4	16.8	84.0	601	US-09-949-016-87851	Sequence 87851, A
5	16.8	84.0	601	US-09-949-016-87852	Sequence 87852, A
6	16.8	84.0	601	US-09-949-016-183202	Sequence 183202, A
7	16.8	84.0	601	US-09-949-016-186785	Sequence 186785, A
8	16.8	84.0	601	US-09-949-016-186786	Sequence 186786, A
9	16.8	84.0	23439	US-08-956-171E-38	Sequence 38, Appl
10	16.8	84.0	23439	US-08-781-986A-38	Sequence 38, Appl
11	16.8	84.0	62908	US-09-949-016-17554	Sequence 17554, A
12	16.8	84.0	86439	US-09-949-016-11945	Sequence 11945, A
13	16.8	84.0	86440	US-09-949-016-16990	Sequence 16990, A
14	16.8	84.0	123463	US-09-949-016-17078	Sequence 17078, A
15	16.8	84.0	129327	US-09-949-016-12257	Sequence 12257, A
16	16.8	84.0	129327	US-09-949-016-15368	Sequence 15368, A
17	16.8	84.0	168334	US-09-949-016-15999	Sequence 15999, A
18	16.8	84.0	233024	US-09-949-016-13477	Sequence 13477, A
19	16.8	84.0	254964	US-09-949-016-12583	Sequence 12583, A
20	16.8	84.0	254964	US-09-949-016-17392	Sequence 17392, A
21	16.8	84.0	670689	US-09-949-016-12505	Sequence 12505, A
22	16.8	84.0	670690	US-09-949-016-14207	Sequence 14207, A
23	16.8	84.0	786431	US-09-751-389-3	Sequence 3, Appl
24	16.4	82.0	271	US-09-222-575-50	Sequence 50, Appl
25	16.4	82.0	271	US-09-389-681-50	Sequence 50, Appl
26	16.4	82.0	271	US-09-620-405B-50	Sequence 50, Appl
27	16.4	82.0	271	US-09-339-338-50	Sequence 50, Appl

C	28	16.4	82.0	271	4	US-09-433-826B-50	Sequence 50, Appl
C	29	16.4	82.0	271	4	US-09-604-287A-50	Sequence 50, Appl
C	30	16.4	82.0	271	4	US-09-285-480-50	Sequence 50, Appl
C	31	16.4	82.0	271	4	US-09-834-759-50	Sequence 50, Appl
C	32	16.4	82.0	271	4	US-09-590-751A-50	Sequence 50, Appl
C	33	16.4	82.0	271	4	US-09-551-621-50	Sequence 50, Appl
C	34	16.4	82.0	580	4	US-09-702-705-1279	Sequence 1279, Ap
C	35	16.4	82.0	580	4	US-09-736-457-1279	Sequence 1279, Ap
C	36	16.4	82.0	580	4	US-09-614-124B-1279	Sequence 1279, Ap
C	37	16.4	82.0	580	4	US-09-671-325-1279	Sequence 1279, Ap
C	38	16.4	82.0	580	4	US-09-658-824-1279	Sequence 1279, Ap
C	39	16.4	82.0	601	4	US-09-949-016-157857	Sequence 157857, A
C	40	16.4	82.0	601	4	US-09-949-016-157858	Sequence 157858, A
C	41	16.4	82.0	601	4	US-09-949-016-157859	Sequence 157859, A
C	42	16.4	82.0	601	4	US-09-949-016-157860	Sequence 157860, A
C	43	16.4	82.0	639	3	US-09-221-017B-741	Sequence 741, App
C	44	16.4	82.0	1001	4	US-09-671-317-149	Sequence 149, App
C	45	16.4	82.0	2279	4	US-09-702-705-1792	Sequence 1792, App

## ALIGNMENTS

```
RESULT 1
US-09-280-181B-2
; Sequence 2, Application US/09280181B
; Patent No. 6280941
; GENERAL INFORMATION:
; APPLICANT: Betty P. Tsao (Inventor)
; APPLICANT: Rita M. Cantor (Inventor)
; APPLICANT: Jerome I. Rotter (Inventor)
; TITLE OF INVENTION: Genetic Marker Test for Lupus
; FILE REFERENCE: P07 41735
; CURRENT APPLICATION NUMBER: US/09/280,181B
; NUMBER FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-280-181B-2

Query Match      100.0% Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred No. 0.59;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AAATTGCTATGACTGCA 20
Db      1 AAATTGCTATGACTGCA 20

RESULT 2
US-08-956-171E-1722/c
; Sequence 1722, Application US/08956171E
; Patent No. 6593114
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; APPLICANT: Gil H. Choi
; APPLICANT: Patrick S. Dillon
; APPLICANT: Craig A. Rosen
; APPLICANT: Steven C. Barash
; APPLICANT: Michael R. Fannon
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5256
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
```

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/956,171E  
FILING DATE: 20-Oct-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/009,861  
FILING DATE: January 5, 1996  
APPLICATION NUMBER: 08/781,986  
FILING DATE: January 3, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Mark J. Hyman  
REGISTRATION NUMBER: 46,789  
REFERENCE/DOCKET NUMBER: PB248P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (240) 314-1224  
TELEFAX: (301) 309-8439  
INFORMATION FOR SEQ ID NO: 1722:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 325 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 1722:  
US-08-956-171E-1722

Query Match 84.0%; Score 16.8; DB 4; Length 325;  
Best Local Similarity 90.0%; Pred. No. 41;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AAATGTGTAATGACTGCA 20  
Db 57 AACGTGTGTAATGACTGCA 38

RESULT 3  
US-08-781-986A-1722/c  
Sequence 1722, Application US/08781986A  
Patent No. 6737248  
GENERAL INFORMATION:  
APPLICANT: Charles Kunsch  
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
NUMBER OF SEQUENCES: 5255  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/781,986A  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Benson, Bob  
REGISTRATION NUMBER: 30,446  
REFERENCE/DOCKET NUMBER: PB248PP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 1722:

SEQUENCE CHARACTERISTICS:  
LENGTH: 325 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
US-08-781-986A-1722

Query Match 84.0%; Score 16.8; DB 4; Length 325;  
Best Local Similarity 90.0%; Pred. No. 41;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AAATGTGTAATGACTGCA 20  
Db 57 AACGTGTGTAATGACTGCA 38

RESULT 4  
US-09-949-016-87851/c  
Sequence 87851, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 87851  
LENGTH: 601  
TYPE: DNA  
ORGANISM: Human  
US-09-949-016-87851

Query Match 84.0%; Score 16.8; DB 4; Length 601;  
Best Local Similarity 90.0%; Pred. No. 46;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AAATGTGTAATGACTGCA 20  
Db 250 AAATGTGTAATGACTGCA 231

RESULT 5  
US-09-949-016-87852/c  
Sequence 87852, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 87852  
LENGTH: 601  
TYPE: DNA  
ORGANISM: Human

US-09-949-016-87852

Query Match 84.0%; Score 16.8; DB 4; Length 601;  
Best Local Similarity 90.0%; Pred. No. 46;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGTAATGACTGCA 20  
DB 249 AAATGAGGTAAATGATTGCA 230

RESULT 6

US-09-949-016-183202/c  
; Sequence 183202, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ. ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 183202  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-183202

Query Match 84.0%; Score 16.8; DB 4; Length 601;  
Best Local Similarity 90.0%; Pred. No. 46;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGTAATGACTGCA 20  
DB 156 AAATGTGTGATGATTGCA 137

RESULT 7

US-09-949-016-186785/c  
; Sequence 186785, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ. ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 186785  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-186785

Query Match 84.0%; Score 16.8; DB 4; Length 601;  
Best Local Similarity 90.0%; Pred. No. 46;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGTAATGACTGCA 20  
DB 520 AAATGTGTGATGACTGCA 501

RESULT 8

US-09-949-016-186786/c  
; Sequence 186786, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ. ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 186786  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-186786

Query Match 84.0%; Score 16.8; DB 4; Length 601;  
Best Local Similarity 90.0%; Pred. No. 46;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGCGTAATGACTGCA 20  
DB 392 AAATGTGTGATGACTGCA 373

RESULT 9

US-08-956-171E-38  
; Sequence 38, Application US/08956171E  
; Patent No. 6593114  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; Gil H. Choi  
; Patrick S. Dillon  
; Craig A. Rosen  
; Steven C. Barash  
; Michael R. Fannon  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5256  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/956,171E  
; FILING DATE: 20-Oct-1997  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/009,861  
; FILING DATE: January 5, 1996  
; APPLICATION NUMBER: 08/781,986

```

; FILING DATE: January 3, 1997
; ATTORNEY/AGENT INFORMATION:
;   NAME: Mark J. Hyman
;   REGISTRATION NUMBER: 46,789
;   REFERENCE/DOCKET NUMBER: PB248P1
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (240) 314-1224
;     TELEFAX: (301) 309-8439
;   INFORMATION FOR SEQ ID NO: 38:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 23439 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: double
;       TOPOLOGY: linear
; US-08-956-171E-38
;
; Query Match      84.0%; Score 16.8; DB 4; Length 23439;
; Best Local Similarity 90.0%; Pred. No. 87;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
QY      1 AAATGTGTAATGACTGCA 20
DB      22929 AACGTGTGTAATGACTGCA 22948

RESULT 10
US-08-781-986A-38
; Sequence 38, Application US/08781986A
; Patent No. 6737248
; GENERAL INFORMATION:
;   APPLICANT: Charles Kunach
;   TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
;   NUMBER OF SEQUENCES: 5255
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Human Genome Sciences, Inc.
;     STREET: 9410 Key West Avenue
;     CITY: Rockville
;     STATE: Maryland
;     COUNTRY: USA
;     ZIP: 20850
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
;   COMPUTER: HP Vectra 486/33
;   OPERATING SYSTEM: MSDOS version 6.2
;   SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/781,986A
;   FILING DATE:
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:
;     FILING DATE:
; ATTORNEY/AGENT INFORMATION:
;   NAME: Benson, Bob
;   REGISTRATION NUMBER: 30,446
;   REFERENCE/DOCKET NUMBER: PB248PP
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (301) 309-8504
;     TELEFAX: (301) 309-8512
;   INFORMATION FOR SEQ ID NO: 38:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 23439 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: double
;       TOPOLOGY: linear
; US-08-781-986A-38
;
; Query Match      84.0%; Score 16.8; DB 4; Length 23439;
; Best Local Similarity 90.0%; Pred. No. 87;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
QY      1 AAATGTGTAATGACTGCA 20
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```

DB      22929 AACGTGTGTAATGACTGCA 22948

RESULT 11
US-09-949-016-1755A/C
; Sequence 17554, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;   APPLICANT: VENTER, J. Craig et al.
;   TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;     WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;   FILE REFERENCE: CL001307
;   CURRENT APPLICATION NUMBER: US/09/949,016
;   CURRENT FILING DATE: 2000-04-14
;   PRIOR APPLICATION NUMBER: 60/241,755
;   PRIOR FILING DATE: 2000-10-20
;   PRIOR APPLICATION NUMBER: 60/237,768
;   PRIOR FILING DATE: 2000-09-08
;   NUMBER OF SEQ ID NOS: 207012
;   SOFTWARE: FastSeq for Windows Version 4.0
;   SEQ ID NO: 17554
;   LENGTH: 62908
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;     NAME/KEY: misc feature
;     LOCATION: (1)..(62908)
;   OTHER INFORMATION: n = A,T,C or G
; US-09-949-016-1755A
;
; Query Match      84.0%; Score 16.8; DB 4; Length 62908;
; Best Local Similarity 90.0%; Pred. No. 1e+02;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
QY      1 AAATGTGTAATGACTGCA 20
DB      38163 AACGTGTGTAATGACTGCA 38144

RESULT 12
US-09-949-016-11945/C
; Sequence 11945, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;   APPLICANT: VENTER, J. Craig et al.
;   TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;     WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;   FILE REFERENCE: CL001307
;   CURRENT APPLICATION NUMBER: US/09/949,016
;   CURRENT FILING DATE: 2000-04-14
;   PRIOR APPLICATION NUMBER: 60/241,755
;   PRIOR FILING DATE: 2000-10-20
;   PRIOR APPLICATION NUMBER: 60/237,768
;   PRIOR FILING DATE: 2000-10-03
;   PRIOR APPLICATION NUMBER: 60/231,498
;   PRIOR FILING DATE: 2000-09-08
;   NUMBER OF SEQ ID NOS: 207012
;   SOFTWARE: FastSeq for Windows Version 4.0
;   SEQ ID NO: 11945
;   LENGTH: 86439
;   TYPE: DNA
;   ORGANISM: Human
; US-09-949-016-11945
;
; Query Match      84.0%; Score 16.8; DB 4; Length 86439;
; Best Local Similarity 90.0%; Pred. No. 1.1e+02;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
QY      1 AAATGTGTAATGACTGCA 20
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Db 23617 AAATTGGTGAATGATTGCA 23598

## RESULT 13

US-09-949-016-16990/C  
; Sequence 16990, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16990  
; LENGTH: 86440  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-16990

Query Match 84.0%; Score 16.8; DB 4; Length 86440;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATTGGTGAATGATTGCA 20  
Db 23617 AAATTGGTGAATGATTGCA 23598

## RESULT 14

US-09-949-016-17078/C  
; Sequence 17078, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 17078  
; LENGTH: 123463  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)-(123463)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-17078

Query Match 84.0%; Score 16.8; DB 4; Length 123463;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATTGGTGAATGATTGCA 20  
Db 29756 AAATTGGTGAATGATTGCA 29737

## RESULT 15

US-09-949-016-12257/C  
; Sequence 12257, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12257  
; LENGTH: 129327  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)-(129327)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-12257

Query Match 84.0%; Score 16.8; DB 4; Length 129327;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATTGGTGAATGATTGCA 20  
Db 68053 AAATTGGTGAATGATTGCA 68034

Search completed: September 1, 2005, 20:40:38  
Job time: 7.26155 secs

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## OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 20:20:43 ; Search time 21.1157 Seconds  
(without alignments)  
6202.889 Million cell updates/sec

Title: US-09-909-317-2

Perfect score: 1 aaatctggtatgactgca 20

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 7338684 seqs, 3274456166 residues

Total number of hits satisfying chosen parameters: 14677368

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

## Database :

Published Applications NA:\*

- 1: /cgn2\_6/prodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/prodata/2/pubpna/PCR\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/prodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/prodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/prodata/2/pubpna/PCRUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/prodata/2/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/prodata/2/pubpna/US09\_PUBCOMB.seq:\*
- 9: /cgn2\_6/prodata/2/pubpna/US09A\_PUBCOMB.seq:\*
- 10: /cgn2\_6/prodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 11: /cgn2\_6/prodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 12: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/prodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 14: /cgn2\_6/prodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/prodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/prodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/prodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/prodata/2/pubpna/US10F\_PUBCOMB.seq:\*
- 19: /cgn2\_6/prodata/2/pubpna/US10G\_PUBCOMB.seq:\*
- 20: /cgn2\_6/prodata/2/pubpna/US10H\_PUBCOMB.seq:\*
- 21: /cgn2\_6/prodata/2/pubpna/US10I\_PUBCOMB.seq:\*
- 22: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 23: /cgn2\_6/prodata/2/pubpna/US11A\_PUBCOMB.seq:\*
- 24: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 25: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 26: /cgn2\_6/prodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	20	100.0	20	11	US-09-909-317-2
2	20	100.0	20	11	US-09-909-317-2
3	18.4	92.0	21	11	US-10-774-355A-643
4	18	90.0	19	11	US-10-322-281-560
5	16.8	84.0	20	11	US-10-719-993-16887
6	16.8	84.0	20	11	US-10-719-993-16887
7	16.8	84.0	20	11	US-10-719-993-16887

QY	DB	1 AAATGTGTAATGACTGCA 20	1 AAATGTGTAATGACTGCA 20			
8	16.8	84.0	325	8	US-08-781-986A-1722	Sequence 1722, Ap
9	16.8	84.0	325	13	US-10-329-624-1722	Sequence 1722, Ap
10	16.8	84.0	663	13	US-10-027-623-218409	Sequence 218409, Ap
11	16.8	84.0	663	17	US-10-027-623-218409	Sequence 218409, Ap
12	16.8	84.0	1368	18	US-10-027-623-218409	Sequence 6765, Ap
13	16.8	84.0	2591	18	US-10-424-599-53048	Sequence 53048, A
14	16.8	84.0	23439	8	US-08-781-986A-38	Sequence 38, Appl
15	16.8	84.0	23439	8	US-10-329-624-38	Sequence 38, Appl
16	16.8	84.0	70000	17	US-10-107-723-13	Sequence 13, Appl
17	16.8	84.0	96599	18	US-10-052-482-178	Sequence 178, Appl
18	16.8	84.0	357652	19	US-10-322-696-34	Sequence 34, Appl
19	16.8	84.0	366803	20	US-10-719-993-6805	Sequence 6805, Ap
20	16.8	84.0	786431	16	US-10-412-273-3	Sequence 3, Appl
21	16.8	84.0	271	9	US-09-604-287A-50	Sequence 50, Appl
22	16.4	82.0	271	9	US-09-834-759-50	Sequence 50, Appl
23	16.4	82.0	271	9	US-09-339-338-50	Sequence 50, Appl
24	16.4	82.0	271	10	US-09-551-621-50	Sequence 50, Appl
25	16.4	82.0	271	13	US-10-007-805-50	Sequence 50, Appl
26	16.4	82.0	271	14	US-10-076-622-50	Sequence 50, Appl
27	16.4	82.0	271	16	US-10-124-805-50	Sequence 50, Appl
28	16.4	82.0	271	17	US-10-441-893-50	Sequence 50, Appl
29	16.4	82.0	453	9	US-09-880-107-635	Sequence 635, Appl
30	16.4	82.0	453	9	US-09-967-768A-53	Sequence 53, Appl
31	16.4	82.0	453	9	US-09-554-531-500	Sequence 500, Appl
32	16.4	82.0	453	21	US-10-843-641A-1567	Sequence 1567, Ap
33	16.4	82.0	453	21	US-10-843-641A-1567	Sequence 1567, Ap
34	16.4	82.0	552	19	US-10-637-885-119	Sequence 119, Appl
35	16.4	82.0	580	9	US-09-998-598-1186	Sequence 1186, Ap
36	16.4	82.0	580	9	US-09-736-457-1279	Sequence 1279, Ap
37	16.4	82.0	580	9	US-09-849-626-1279	Sequence 1279, Ap
38	16.4	82.0	580	14	US-10-017-754-1379	Sequence 1379, Ap
39	16.4	82.0	580	16	US-10-113-872-1379	Sequence 1279, Ap
40	16.4	82.0	580	17	US-10-283-011-1379	Sequence 1279, Ap
41	16.4	82.0	580	17	US-10-174-693-2	Sequence 2, Appl
42	16.4	82.0	605	17	US-10-027-633-237280	Sequence 237280, Ap
43	16.4	82.0	605	17	US-10-027-633-237280	Sequence 237280, Ap
44	16.4	82.0	605	17	US-10-027-633-237280	Sequence 237280, Ap
45	16.4	82.0	605	17	US-10-027-633-237280	Sequence 237280, Ap

## ALIGNMENTS

RESULT 1  
US-09-909-317-2  
; Sequence 2, Application US/09909317  
; Publication No. US20040152075A1  
; GENERAL INFORMATION:  
; APPLICANT: Betty P. Tsao (Inventor)  
; APPLICANT: Rita M. Cantor (Inventor)  
; APPLICANT: Jerome I. Rotter (Inventor)  
; TITLE OF INVENTION: Genetic Marker Test for Lupus  
; FILE REFERENCE: 18810-82152  
; CURRENT APPLICATION NUMBER: US/09/909,317  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: 09/280,181  
; PRIOR FILING DATE: 1999-03-29  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-909-317-2

Query Match 100.0%; Score 20; DB 11; Length 20;  
Best local Similarity 100.0%; Pred. No. 7.1;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
DB 1 AAATGTGTAATGACTGCA 20

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RESULT 2
US-09-909-317-5/c
; Sequence 5, Application US/09909317
; Publication No. US20040152075A1
; GENERAL INFORMATION:
; APPLICANT: Betty P. Tsao (Inventor)
; APPLICANT: Rita M. Canfor (Inventor)
; APPLICANT: Jerome I. Rotter (Inventor)
; TITLE OF INVENTION: Genetic Marker Test for Lupus
; FILE REFERENCE: 18810-82152
; CURRENT APPLICATION NUMBER: US/09/909,317
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: 09/280,181
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2085
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-317-5
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Query Match          100.0%; Score 20; DB 11; Length 2085;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 AAATGTGCTAATGACTGCA 20
Db      909 AAATGTGCTAATGACTGCA 890
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RESULT 3
US-10-774-355A-643/c
; Sequence 643, Application US/10774355A
; Publication No. US2005043513A1
; GENERAL INFORMATION:
; APPLICANT: Firestein, Stuart
; APPLICANT: Zhang, Ximin
; TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
; FILE REFERENCE: A34570-PCT-USA-A-070050.2520
; CURRENT APPLICATION NUMBER: US/10/774,355A
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: PCT/US02/25556
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/311,159
; PRIOR FILING DATE: 2001-08-09
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/339,694
; NUMBER OF SEQ ID NOS: 2596
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 643
; LENGTH: 945
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: MOR204-18
US-10-774-355A-643
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Query Match          92.0%; Score 18.4; DB 21; Length 945;
Best Local Similarity 95.0%; Pred. No. 79;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1 AAATGTGCTAATGACTGCA 20
Db      613 AAATGTGCTAATGACTGCA 594
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RESULT 4
US-10-322-281-560/c
; Sequence 560, Application US/10322281
; Publication No. US20040126762A1
; GENERAL INFORMATION:
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; APPLICANT: David W. Morris
; APPLICANT: Marc S. Malandro
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer
; FILE REFERENCE: 529452001000
; CURRENT APPLICATION NUMBER: US/10/322,281
; CURRENT FILING DATE: 2002-12-17
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 560
; LENGTH: 68732
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(68732)
; OTHER INFORMATION: n = A,T,C or G
US-10-322-281-560
```

```
Query Match          90.0%; Score 18; DB 19; Length 68732;
Best Local Similarity 100.0%; Pred. No. 2,4e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 ATTGTGCTAATGACTGCA 20
Db      13183 ATTGTGCTAATGACTGCA 13166
```

```
RESULT 5
US-10-719-993-16987/c
; Sequence 16987, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16987
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-719-993-16987
```

```
Query Match          84.0%; Score 16.8; DB 20; Length 201;
Best Local Similarity 90.0%; Pred. No. 3.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 AAATGTGCTAATGACTGCA 20
Db      179 AAATGTGCTAATGACTGCA 160
```

```
RESULT 6
US-10-719-993-16988/c
; Sequence 16988, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16988
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-719-993-16988
```

Query Match 84.0%; Score 16.8; DB 20; Length 201;  
Best Local Similarity 90.0%; Pred. No. 3.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
|||  
Db 149 AAATGTGTAATGACTGCA 130

RESULT 7  
US-09-764-891-9678  
; Sequence 9678, Application US/09764891  
; Publication No. US20030077808A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC006  
; CURRENT APPLICATION NUMBER: US/09/764,891  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 10231  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 9678  
; LENGTH: 256  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-891-9678

Query Match 84.0%; Score 16.8; DB 10; Length 256;  
Best Local Similarity 90.0%; Pred. No. 3.8e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
|||  
Db 86 AAATGTGTAATGACTGCA 105

RESULT 8  
US-08-781-986A-1722/C  
; Sequence 1722, Application US/08781986A  
; Publication No. US20030054436A1  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5255  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/781,986A  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Benson, Bob  
; REGISTRATION NUMBER: 30,446  
; REFERENCE/DOCKET NUMBER: PB248BP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (301) 309-8504  
; TELEFAX: (301) 309-8512  
; INFORMATION FOR SEQ ID NO: 1722:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 325 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
US-08-781-986A-1722

Query Match 84.0%; Score 16.8; DB 8; Length 325;  
Best Local Similarity 90.0%; Pred. No. 4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
|||  
Db 57 AACGTGTGTAATGACTGCA 38

RESULT 9  
US-10-329-624-1722/C  
; Sequence 1722, Application US/10329624  
; Publication No. US20040043037A1  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; Gil H. Choi  
; Patrick S. Dillon  
; Craig A. Rosen  
; Steven C. Barash  
; Michael R. Fannon  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5256  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/329,624  
; FILING DATE: 27-Dec-2002  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/956,171  
; FILING DATE: October 20, 1997  
; APPLICATION NUMBER: 60/009,861  
; FILING DATE: January 5, 1996  
; APPLICATION NUMBER: 08/781,986  
; FILING DATE: January 3, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mark U. Hyman  
; REGISTRATION NUMBER: 46,789  
; REFERENCE/DOCKET NUMBER: PB248P1D1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (240) 314-1224  
; TELEFAX: (301) 309-8439  
; INFORMATION FOR SEQ ID NO: 1722:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 325 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 1722:  
US-10-329-624-1722

Query Match 84.0%; Score 16.8; DB 18; Length 325;  
Best Local Similarity 90.0%; Pred. No. 4e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
|||

Db 57 AACGTGTGTAATGACTGCA 38

RESULT 10  
US-10-027-632-218409/C

Sequence 218409, Application US/10027632  
Publication No. US20020198371A1

GENERAL INFORMATION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
Polymorphisms in the Human Genome

FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198,676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193,483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185,218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167,363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156,358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146,002

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 218409

LENGTH: 663

TYPE: DNA

ORGANISM: Human

US-10-027-632-218409

Query Match 84.0%; Score 16.8; DB 13; Length 663;  
Best Local Similarity 90.0%; Pred. No. 4.5e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
Db 193 AAATGTGTAATGACTGTA 174

RESULT 11  
US-10-027-632-218409/C

Sequence 218409, Application US/10027632  
Publication No. US20030204075A9

GENERAL INFORMATION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
Polymorphisms in the Human Genome

FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR APPLICATION NUMBER: US 60/218,006

PRIOR FILING DATE: 2000-07-12

PRIOR APPLICATION NUMBER: US 60/198,676

PRIOR FILING DATE: 2000-04-20

PRIOR APPLICATION NUMBER: US 60/193,483

PRIOR FILING DATE: 2000-03-29

PRIOR APPLICATION NUMBER: US 60/185,218

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/167,363

PRIOR FILING DATE: 1999-11-23

PRIOR APPLICATION NUMBER: US 60/156,358

PRIOR FILING DATE: 1999-09-28

PRIOR APPLICATION NUMBER: US 60/146,002

PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 218409

LENGTH: 663

TYPE: DNA

ORGANISM: Human

US-10-027-632-218409

Query Match 84.0%; Score 16.8; DB 17; Length 663;  
Best Local Similarity 90.0%; Pred. No. 4.5e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
Db 193 AAATGTGTAATGACTGTA 174

RESULT 12  
US-10-425-114-6765

Sequence 6765, Application US/10425114  
Publication No. US20040034888A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53313)B

CURRENT APPLICATION NUMBER: US/10/425,114

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 73128

SEQ ID NO 6765

LENGTH: 1386

TYPE: DNA

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: 700605169\_FLI

US-10-425-114-6765

Query Match 84.0%; Score 16.8; DB 18; Length 1386;  
Best Local Similarity 90.0%; Pred. No. 5e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATGTGTAATGACTGCA 20  
Db 1254 AAATGTGTAATGACTGCA 1273

RESULT 13  
US-10-424-599-53048

Sequence 53048, Application US/10424599  
Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J

APPLICANT: Kovalic, David K

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 53048

LENGTH: 2591

TYPE: DNA

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: PAT\_MRT3847\_18914C.1

US-10-424-599-53048

Query Match 84.0%; Score 16.8; DB 18; Length 2591;  
Best Local Similarity 90.0%; Pred. No. 5.5e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 AAATTGGTAAATGACTGCA 20  
|||  
Db 2288 AAATTGGTAAATGACTGCA 2307

RESULT 14  
US-08-781-986A-38  
; Sequence 38, Application US/08781986A  
; Publication No. US20030054436A1  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5255  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.  
; STREET: 9410 Key West Avenue  
; CITY: Rockville  
; STATE: Maryland  
; COUNTRY: USA  
; ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/781,986A  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Benson, Bob  
; REGISTRATION NUMBER: 30,446  
; REFERENCE/DOCKET NUMBER: PB248PP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (301) 309-8504  
; TELEFAX: (301) 309-8512  
; INFORMATION FOR SEQ ID NO: 38:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 23439 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; US-08-781-986A-38

Query Match 84.0%; Score 16.8; DB 8; Length 23439;  
Best Local Similarity 90.0%; Pred. No. 7.8e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATTGGTAAATGACTGCA 20  
|||  
Db 22929 AACGTGGTAAATGACTGCA 22948

RESULT 15  
US-10-329-624-38  
; Sequence 38, Application US/10329624  
; Publication No. US20040043037A1  
; GENERAL INFORMATION:  
; APPLICANT: Charles Kunsch  
; Gil H. Choi  
; Patrick S. Dillon  
; Craig A. Rosen  
; Steven C. Barash  
; Michael R. Fannon  
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences  
; NUMBER OF SEQUENCES: 5256  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Human Genome Sciences, Inc.

STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage  
; COMPUTER: HP Vectra 486/33  
; OPERATING SYSTEM: MSDOS version 6.2  
; SOFTWARE: ASCII Text  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/329,624  
; FILING DATE: 27-Dec-2002  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/956,171  
; FILING DATE: October 20, 1997  
; APPLICATION NUMBER: 60/009,861  
; FILING DATE: January 5, 1996  
; APPLICATION NUMBER: 08/781,986  
; FILING DATE: January 3, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mark J. Hyman  
; REGISTRATION NUMBER: 46,789  
; REFERENCE/DOCKET NUMBER: PB248PDI1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (240) 314-1224  
; TELEFAX: (301) 309-8439  
; INFORMATION FOR SEQ ID NO: 38:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 23439 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; US-10-329-624-38

Query Match 84.0%; Score 16.8; DB 18; Length 23439;  
Best Local Similarity 90.0%; Pred. No. 7.8e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAATTGGTAAATGACTGCA 20  
|||  
Db 22929 AACGTGGTAAATGACTGCA 22948

Search completed: September 2, 2005, 03:53:50  
Job time : 26.1157 secs

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:
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FASTSEQ for Windows Version 4.0.
:
: SEQ ID NO: 12360
: LENGTH: 105679
: TYPE: DNA
: ORGANISM: Human
:
: US-03-949-016-12360

```

Query Match	10.9%;	Score 228;	DB 4;	Length 105679;
Best Local Similarity	60.6%;	Pred. No. 7.2e-44;		
Matches 452; Conservative	0;	Mismatches 275;	Indels 19;	Gaps 4

[illegible]

```

? APPLICANT: VENTER, J. Craig et al.
? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
? FILE REFERENCE: C0001307
? CURRENT APPLICATION NUMBER: US/09/949,016
? PRIOR APPLICATION NUMBER: 2000-04-14
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 16409
? LENGTH: 107679
? TYPE: DNA
? ORGANISM: Human
? US-09-949-016-16409

```

Query Match	10.9%	Score 228	DB 4	length 107679
Best Local Similarity	60.6%	Pred. No.	7	2e-44
Matches 452	Conservative	0	Mismatches 275	Indels 19
				Gaps 4

OY	103	TTATCTCGTTACCTTCAAAATATCTTTTTTTTTTTTTTTTGGAGACAGGGTGCACCTGTC	162
Db	96175	TTGTAAATTAATCACTCTTTTAATGTGGTTTGTTTGTTTGAACACAGTCGTGTTCTGTC	96233
OY	163	ACCAGGCTAGAGTCAGTGGCACTATCATGCTCACACAGCTTCAACTTCAGGCTC	222
Db	96235	ACCCAGGGTGGAGTGCAGTGGCTCAATCTCAGCTCACTACAACTCCGCTCCTGGGTTCC	96299
OY	223	AGGTGATCTTCCCACTTCAAGCTTCCGAGTAATGGGACTACAGGCAACTGTCACCAACC	282
Db	96295	AAGGATTTCTCCGGCTCAAGCTCCCAAGTAAGTGGATTTACAGGCACTGCGCACACGC	96355
OY	283	CCAGCTAATTTTT-----GTAGAGCAAGTTTTGTCATGTTGTCCAGGCTGGTCT	333
Db	96355	CAGGCTAATTTTTGTATTTTGGTAGAGATGGGATTTTACCATGTTGGCCAGCTGGTCT	96411
OY	334	TGAATCTCTGGGCTCAAGGGATCCGGCACCTCAGCTCCCAAGTGTACAGATTATAG	393
Db	96415	CGATCTCTCAAGCTCAAGTGATCCGGCCACCTCGGCTCTTAATATGCTGGGATTADGG	96477
OY	394	CATGAGCCACTGTGGCCAGGCTTACCTTCAACGATCTAACTGTTACTAATCTTTAGGAT	453
Db	96475	CATGAACCAACAGGCCAGGCTTGAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	96533
OY	454	TGCGGCAATGTCTCAACACTTCTGTGTTACTCAACACTCTGTCTTAAAGCACATAG	513
Db	96535	TTTTTAACAATTAATPACAACTAATCTGTGATGTGTCACCTTTTACTTAAACCAATCTTCC	96599
OY	514	TTCTTCTATAGTTAAACCTTTTA-----TGAGTTTTATTCATGTGCTTATTTTCTT	568
Db	96595	TTGTAAATTAATGCAACCAATTTTATCACCTGATTTAAATCATCCCAAAATGTTTTG	96655
OY	569	ATCCTCTATACCGAATTGAATATTTTCAATAAAGCACTCATGTTACAATCTTTGAA	628
Db	96655	CATTCTGTTAAATCACTTAATCTTCTCTTAATGATTTCTATTAATAGCAACTCATATA	96711
OY	629	ATGGA---AAAAAAATGATAGATTAAGAAAAAGAACCAATTTTAATTAATATATTT	685
Db	96715	TGTATTATAGTACAAAAAAGTGCAATATGTCTGTAAATCACTGTGGAAATTAAGA	96771
OY	686	TGAAGTATAGTTCTATATTAAACAACAAGATCTAGGCCAGAGTSCAGTGGCTCATGCTGT	745
Db	96775	TAAATGCAATCTCTTATGATAAAAATATTTGTGGCGCGCGGTGCTCAGCGCTGT	96833
OY	746	AATCCAGCAATTTGGGAATCGAGTGGGAGGATTTCTTGAGGCCAGGAGTTCAAGACC	805
Db	96835	AATTCCAGCACTTTGGGAGGTTCAGAGTGGGCAAT--CATGAGTCCAGGAGTTCAAGACC	96899
OY	806	AGCTGGGCAATGAGAGATTTCC	831

Db 96893 AGCCTGACCAACATGTGAACCC 96918

## RESULT 5

```

: Sequence 1, Application US/09792616
: Patent No. 6780587
: GENERAL INFORMATION:
: APPLICANT: PxE International, Inc.
: APPLICANT: University of Hawaii
: TITLE OF INVENTION: Mutations in a gene encoding an ABC transporter (MRP6) causing
: TITLE OF INVENTION: Pseudoxanthoma Elasticum
: FILE REFERENCE: PxE-001
: CURRENT APPLICATION NUMBER: US/09792,616
: CURRENT FILING DATE: 2001-02-23
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 1
: LENGTH: 107820
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc feature
: OTHER INFORMATION: "n" can be an A or a T or a G or a C
: US-09-792-616-1

```

Query Match	Score	DB 4	Length
10.9%	227.2	107820	

Matches 440; Conservative 0; Mismatches 273; Indels 19; Gaps 3;

Oy 124 TATCTTTTCTTTTCTTTTGTGACAGGGTCACTGTCAACCAGGCTAGAGTCCAGTGG 183  
 Db 74559 TTTTCTTTTCTTTTCTTTTGTGAGAGAGTCTCACTGTCTGCTCCAGGCTGCAGTGCAGTGA 74711

184 CACTATCATGGCTCACCACAGCCTCAACCTTCAGGGCTCAGGTGATCCTCCCACTCAGC 243

Db 74719 TGTGATCTCAGCTCACCTGCAACCTCCACCTCCCGGGTTCAGTGTATCTCCTGCTCAGC 74778

244 C L C C G A G I A G H I B G G M C I A C A G G C A C C I G C C A C C A C C C C C A G C I A A I I I I - - - - - 293

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[illegible]

415 TACCTTCAACGTATCT-----AACTGGTTACTAACCTTTTGGGATTCGGCCCTATGTCCTAC 465

Db 74959 TGGTCTCATCTGATTTT TAGCAACGGTGGGTCAACCTGATCAATGCCCTGAATTTCC 750

470 AACCTTCTGCTTACTCAACATCCTTGTCTCTTAAGCCACTAGCTTCTTCTATGTTA 529

Db 75019 CACGTTCTTCCCTCTCTCTTCTTCTCCTAATGATGACATTATGTACTGCACATGA 750

530 A C A C T T T T T A T G A C T T T T A T T C A T C T G C T T A T T T T C T T A T C C T C T A T A C C A G A A T T G A A 585

DB 75079 AGCCCTGTCAGTGCCTTAIGTGTGTAATGCTAAGCACCTGCCATAITGTTTGCAGGCC 751

cy 350 1A1111CAATAAAGCAGC1CAIG1ACAA1C11G-----AAA1GAA1AA1AA1AA1G 647

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**QUESTION**

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Db 75259 TAACAGTTTTCACAGGCCACAGTGGCTCATGCCGTAATCCAGCACTTGGGAG 75318

75310 75378

825 GATTCCTCCATCT 835

Db 75379 AACCCAGTTCT 75390

## RESULTS

```

US-09-949-016-13627/c
: Sequence 13627, Application US/09949016
: Patent No. 6812339
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: C1001307
: CURRENT APPLICATION NUMBER: US/09/949,016
: CURRENT FILING DATE: 2000-04-14
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 13627
: LENGTH: 36311
: TYPE: DNA
: ORGANISM: Human
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(36311)
: OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13627

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Query Match	10.7%	Score 224	DB 4	Length 36311
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Matches 816; Conservative 0; Mismatches 550; Indels 122; Gaps 14;

85 TTCCATCATATTTCCACTTATTCGTTACCTTCAAATATCTTTT TTTTGG 144

9560 TTCCAGGTTCTTTTATATTTTATTTTATTTTATTTTATTTTATTTTATTTGAC 9501

145 AGACAGGGI CACACIGI CACCCAGGCI AAGAGI CCAAGI GGCACI AICAGI CACACAG 204

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A vertical ruler with markings from 0 to 10 cm. The markings are in millimeters, with major ticks every centimeter and minor ticks every millimeter. The ruler is oriented vertically with the 0 mark at the top.

[illegible]

02200 02201

316 TGGTAACTACAGCAATGATAATTGAAGGATCAGGCGAATCCGCCAACCAAGAACAACCA 375

9320 TGTGCCCAGGCTGGTCTTGAACTCCTGGGCTCAAGCAATCCACCTGCTCAGCCTCCA 9261

376 AAGTGCTAGGATTATAGGCATGAGCCACTGTGCCCAGCCTACCTTCAACGTATCTAACTG 435

9260 AAGTCTAGGATTACAAGCGTGAGCCACTGCGCCCGGCCATTCTTCCAAGTTTCCTGGCT 9201

436 GTTACTACTTTTAGGATTCGGCCTATGTTCTCACACC-----TTCTTGCTTACTCA 487

9200 ATATCACTCCAAACCTCTTCCCTTATTTCCCCAGCCCCAGGAAITGTAAGCTGCTTCCCTCC 9141

488 ACAACCTTGGCTTAAAGCCACIAGCCTCTCTCTAAGGTAACAA----- 332

Db	9140	ACTTACTATTTTCTGTACTTCTGTGTTCTCTTTTCCCTTTTCAACTCCAAATACCT	9081
Qy	533	-----CTTTTAGAGTTTAAATCATCTGCTAATTTTCTTAATCTTAATA	578
Db	9080	GTTTAGTAAATTTCTTAATCAAAATTTCAACTAGTGTGTTTCTGTTCTGCTCAAT	9021
Qy	579	CCAGAAATGAAATTTTCAAT-----AAAGCACCTCATGTTCAAATCT	623
Db	9020	CTGACTTAACGGTTCTTAAATGTAAATCTCCACTTGGAGAAAAATTCATCAAGTTCT	8961
Qy	624	TTGAAATGAAAAAATAATCATAGATTGAAAAAACAATTTTAAATTAATATAT	683
Db	8960	TAAGGAATGCGTGAATTATGTGCTTTGGAGCAAAATATATCAAAAGCTGAGACATCTTG	8901
Qy	684	TTT----GAAGTATAGTTCTATATTAAACAACA-GATCTAGGCCAGGTGACGTGCTCA	738
Db	8900	TGTACCAAGAAATCAAGAAAGCTATCAAAATATCAATGGGTCAATGCCAGGCACGGTAGCTCA	8841
Qy	739	TGCGCTGTAATCCCAACAAATTTGGGAAGTCAGAGTGGAGAGATGCTTTAGAGCCAGGGGT	798
Db	8840	CGCCTGTAAATCCCAAGCACTTGGAGGGAGAGAGCGGAGATAGCTTAAGCCCAAGAGATT	8781
Qy	799	CAAGACCAAGCTGGGCAACATGAGAGATTTCCCACTCTTCTCTTACACACACACAC	858
Db	8780	TGAGACCTCCCTGGGGAATACAGTAG-----AACCCTGTTCTTCAAAAAAGAAAG	8728
Qy	859	ACACACACAAAAATATCTGATAGCAACAGGTGACATTAACAACAATTTGAGTAGTG	918
Db	8727	AAAAAAAATCAATATGATTAATGTCCAAAGGAATCAGAAAGCAAGAAAAAGGACCTCCA	8668
Qy	919	ATGAGCTTAATTAATTTTCGAGATTATCCAAACAACCTAAATCACTGAAAAAGTCTG	978
Db	8667	TTGA-----CATTAATATGGTATCATTTTAAGCATCAAAAAGAAATGACTGTATCTGTGCTA	8612
Qy	979	TGATGACTATTATGCCACA-AAAGTCACAGGTACTGCTAATATCTCGTGAATTGTAGTAA	1037
Db	8611	AGGTTTCCAGTACAGATGCAAGGAAAAAGTGTCTTAATGCTTTCCGCTGTGTGATGT	8552
Qy	1038	TTCAATTAATAAAGAAATCTAGGTTCAAGTTGATTAATTTGTCCGACGGTCTGTGACGG	1097
Db	8551	GGCAGCTGAGATTAAATAGAAATACAG-----GG	8521
Qy	1098	CAGGTGTAAGACGCCCTCCAGACCCAGAGGGGTGACCTAGCATGTCAGAGGTTCACCTGG	1157
Db	8520	AAACTGGAATTAACCTTGAAGAACGTGAAGAACCTGTTTACTTCAGAAATCTTAATCTTTT	8461
Qy	1158	GCCAAATCAATATATTTCCGAGAGCGGGGCGTCGCGCTTCCCGAACCAGCTGCCCTCAG	1217
Db	8460	GAGTCGGAGAGAGATTTCTGGAAATAGCCCTTACACCCCTTACTCTGTTGATTAACACT	8401
Qy	1218	GGAGAGAGACAACCTTAAGATTTGGGGCGGCGCTGTAGCTCATGCCCCCTGATCCAG	1277
Db	8400	TGCAAAAGCTTAAAGGT-----GGCAGGCAACAATGGGTCAATGCTTAATCCAG	8356
Qy	1278	CACTTCCGGAGGCTGAGGCGTGAAGATCACTTTTAGCAGAGATTGAGACCAAGTCAACC	1337
Db	8349	AACTGTGGAGAGCTGAAGGCAAGGTGATACAAAG-CTCAGAGATTCGAACCATCTGTGCT	8291
Qy	1338	AACTTGGAGAGCCCTGTCCCTTAATAAAAAATTTTTTTAATTTAGCCAG-----TTTG	1393
Db	8280	AACATGTGAAATCCCATCTCTTACTTAATAATTAACAAAAAATTAATTAAGCAGGCTGTG	8231
Qy	1394	GAGCGCTGTAGTCCCACTACTCGGAGAGGCTGAGTGGAGAGATCGC-TGGGCTCAGGA	1452
Db	8230	GGAAGCTGTGTGCTCCAGCTACTCAGAGAGGCTGAAGGTGGAGAAATGGCATGAACCCGG	8171
Qy	1453	GTTCCAGACTGCACTGAGGACATGATGGGGCACTGCACCTCCAGCGCGG	1500
Db	8170	GGCGAGAGCTTCAAGTGAAGCCAGAAATTTGGCCACTGCACCTCAGCGCTGG	8123

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US-09-949-016-15714
; Sequence 15714, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15714
; LENGTH: 38343
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(38343)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15714

```

Query Match	10.7%	Score 223.8	DB 4	Length 38343
Best Local Similarity	49.5%	Pred. No.4,6e-43		
Matches 361	Conservative 0	Mismatches 357	Indels 12	Gaps 4
QY	117	TTCAAAATATCTTTTTTTTTTTTTTTTGAAGACAGGGTCACTGTCAACCAGGCTAGACT	176	
Db	15541	TTGTAATCTTTTTTTTTTTTTTTTTTTTGAAGACAGTCTCACTTTGTGCGCCAGCTGAGAT	15600	
QY	177	CCAGTGGACTATCAGGCTCACCAAGGCTCAACTTTAAGGGCTCAGGTATCCTCCCA	236	
Db	15601	GCAATGGCAAAATCTCAGCTCACTGCAACTCTGCTCTCCGGGTTCAACAAATTCCTCG	15660	
QY	237	CTTCAGGCTCCCGAGTATGAGACTACAGGACCTGCACACACCCAGCTAAATTTTGT	296	
Db	15661	CTTCAGCTCTCCGCTAGCTGAGACTACAGACCCACACCAAGCTATGCTAATTTTGG	15720	
QY	297	TA-----GAGCAAGTTTTCATGTTGTCAAGCTGTCTTTGAACTCTGGGCTC	348	
Db	15721	TATTTTAGTAGAAGAGGGTTTCAACATGTTGGCCAGGCTGGCGTTGAATCTCTGACCTC	15780	
QY	349	AAGGATCCGGCCACCTCAGGCTCCCAAGTGTATGATTAATAGCATAGCACTGTGC	408	
Db	15781	A--TGATCCACCGGCTCAGGCTCCCAAGTGTATGATTAACAGGTATAGCACACAC	15838	
QY	409	CCAG-CTTACCTTCAACGTATCTAACGTGTTACTAATTTTAGAATCGGCTATGCTC	467	
Db	15839	CCGGCTCTATGTATTAATCTTTTTTTTTTTTTTTTGAAGAGGATCTGTGCTGTGGC	15898	
QY	468	ACAACTTCTTCTGCTTA-CTCAACATCCTGTGCTTTAAGCCACTAGACTTCTCTATGCG	526	
Db	15899	CCAGGCTGGGCGCATCCAGCTCACGCAAGCTCCGCTCCNNNNNNNNNNNNNNNNNN	15958	
QY	527	TTAACACTTTTATGATTTTATTCATCTGCTTATTTTCTTATCTCTATACAGAAATT	586	
Db	15959	NN	16018	
QY	587	GAATATTTTCAAAATAAGCACTCATGTTACAATCTTTGAAATGAAAAAAATATGCA	646	
Db	16019	NN	16078	
QY	647	TAGATTATGAAAAAACAATTTTATATACTATTTTGAAGATAGTCTATATTTAA	706	
Db	16079	NN	16138	
QY	707	ACACAAGATCTAGGCGCAGGTGAGTGGCTCATGCTGTATCCAGCAATTTGGAAAT	766	



RESULT 9  
US-09-949-016-15919  
; Sequence 15919, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTUR, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949, 016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: PatSeq for Windows Version 4.0  
; SEQ ID NO 15919  
; LENGTH: 40655  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-15919

Query Match 10.7%; Score 222.4; DB 4; Length 40655;  
Best Local Similarity 52.8%; Pred. No. 1e-42;  
Matches 815; Conservative 0; Mismatches 641; Indels 88; Gaps 12;

QY 90 TCATATTTTCCACTTATTCGTTTACTCTTCAAAATATCTTTTGTGAGACA 149  
DB 16023 TCAGTGTGAGCTGTCTTTTTCAGATATCTTTAGAACTTCTTTTGTGAGACGGA 16082  
QY 150 GGGTCACACTGTACCCAGGCTAGAGTCAGTGGCACTATCATGGCTCACACAGCCTCA 209  
DB 16083 GTCTTACTCTGTACCCAGGCTGAGTGTGAGTGTCTTAATCTGGGTCACTGACGCTCC 16142  
QY 210 ACCTTGAGGCTCAGGTGATCTCCCACTTCAAGCTCCGAGTAGATGGACTTACAGGCA 269  
DB 16143 ACTTCCAGGCTCAGAGAAATCTCTGCTCAGGCTCCGAGTAGCTGGGATTTACAGTTG 16202  
QY 270 CCGTCCACCAACCCCACTAATTTT-----GTAGAGCAAG 306  
DB 16203 CCCACCACTATGCTGCTGCTAATTTTGTGATTTTGTATTTTGTAGTAGAGTCGGG 16262  
QY 307 GTTTTGCATGTGTCCAGGCTGTCTTGAATCTCGGGCTCAAGGATCCGGCCACTTC 366  
DB 16263 TTTTCCACATGTGTGTACGCTGCTCTGAATCTGACTCAGTATCCACTTACCTT 16322  
QY 367 AGCCTCCAAAGTGTAGATTTATAGCATGAGCACTGTGCCAGCTTCAACGT 426  
DB 16323 GGGCTCCAAAGTGTGTGATTTACAGGCACTGACCGGCTGCTT-----GAACT 16378  
QY 427 ATCTAACTGTATCTAACTTTTGAAGTTGGGCTTGTCTCACAACCTTCTTACTC 486  
DB 16379 TTTTATATCAAAACAATATATATGTACGAAA-----CACACTTTGAAAAAAG 16432  
QY 487 AATATCTGTCTTAAAGCACTAGTCTTCTCTATGTGTAACTTTTATGAGTTT 546  
DB 16433 AGAATCCCAAGCTCTTAACTCAGTCACTTATGATCTTGTATTTCTTGTCTTCCCTC 16492  
QY 547 TATTCATCTGCTTATTTTCTTATCTCTATACCAAGATTTGAATTTTCAATTAAGCA 606  
DB 16493 TGAGCATGTGTACTTTTACTTAACCTT-----TAAATATATACAGTTACGCA 16541  
QY 607 CACTCATGTGTACATCTTTGAAAATGAAAAAATGATAGAGATTGAAAAAAGCA 666  
DB 16542 TATATCAGTCTAGCTTCTCTTTTAACTTAAATAGACTAGAT----- 16586  
QY 667 ATTTTAAATAACATATTTTGAAGTATAGTCTATATATAACAAGATCTAGGCCAGG 726  
DB 16587 ATTTTCCCTGTGATCCCAAGTGTCTTGTGATCATTTTAAACAATATCTAGGCCAAG 16646

QY 727 TGCATGCTCATGCTGTATATCCAGCAATTTGGAACTCGAGTGGAGATTTGCTTG 786  
DB 16647 TACAGTGTCTCACACCTGTATATCCAACTTTGGAGGCCGAGGAGGATCACTTG 16706  
QY 787 AGGCCAGGGGTTCAAGCCAGCTGGGCAACATGAGAGATTTCCCATCTCTTCTTAC 846  
DB 16707 AGGTCAAGAGTTTGAACAGAGCTTCCCAATGAGGAACCTTATCTTAC-----TAA 16761  
QY 847 ACACACACACACACACACACAAATATCTGATGCAACAGGTGACATATTACACAA 906  
DB 16762 AATATCAAAAATTTACTAGGATGTGTGGCTGGCTGTAAATCCAGCTACTGGGAGG 16821  
QY 907 TTTTCAGTGTGTGAGCTTATATATTTTCG---AGTTATCAACAACATCTGTAACT 962  
DB 16822 CTGAGGCAAGAGATGCTTGAACCCAGAGGAGAGGATGAGTGGCCAGATCACAC 16881  
QY 963 AATATGAAAAAGCTGTGATGACTATTG-----CCCAAAAGTACAGGTCTGTCTAA 1015  
DB 16882 CACTGTATCTCAGCTGTGGGTGACAGACAAATCTCAATTTCAACAAATACAAACAA 16941  
QY 1016 TACTCTGTGTATTTGTATTAATTCATTAATTAAGAAATGTAGTTTCAAGTTGTATT 1075  
DB 16942 AACAATAAAAAATCAATATTTCTTGAATTAAGATTTATGATGTATGTTCAAGTTG 17001  
QY 1076 TGTCCGACGGTGTGTGACGGCAGGTGAAACCCCGTCCAAAGCCAGAGGGTGACCT 1135  
DB 17002 TGTTCATATATGAAAAAATATATGATGATCTCAAGTTCCACAATTTGATTTAGT 17061  
QY 1136 AGCATGCAAGGCTCACCTCGGGCCAATCATATATTCAGAGGGGGGCTGTGGCTT 1195  
DB 17062 TTTTATTTCAATGATGATCTAATATTTTACAAATTTGAAATTTTGAACATTTTAA 17121  
QY 1196 CCCGACCCAGCTGACCT--CAGGGAGAGAGGACACACTTAAGTTTGGGGCCGCGT 1253  
DB 17122 GCAAGTATTTATTAATTTTGTAGTTAAATTTTAAAGTTTAAAGTCTAGGCTAGCCG 17181  
QY 1254 GGTAGCTCATGCCCCCTGATCCAGCACTTGGGAGCTGAGGGTGAAGATCATCTGTAG 1313  
DB 17182 AGTGTCTCATGCTGTATATCCATCACTTTGGAGGTTCAAGGACGAGATATGCTGAGC 17241  
QY 1314 -CAGGAGTTGAGACCACTGTAGCCAACTTGGCGAGAACCTGTCTTAAAAAATTTT 1372  
DB 17242 CAGGAGTTCAAGACCAAGCTTGGCAAAATTAAGAACCTGTATCTACAAAAAATCAA 17301  
QY 1373 TTTTATTAAGCACTGTGTGTAGGCTGTATGCTTCCAGCTACTCGGAGGCTGAGTGG 1432  
DB 17302 AATTTAGCTGACGTGTGTGATGTGCTGTGTATCTTCAAGAGCTGAGGCGAG 17361  
QY 1433 GAGGATGCG-TGGGCTCAGAGATTTCCAGACTGAGTGAACATGATGGCGCATGCACT 1491  
DB 17362 GAGGATGCTTGAAGCCCAAGAGTTGAGACTGAGTGAACAGGTTGACCATTTGCACT 17421  
QY 1492 CCAAGCGG-----GTGAGCTCATGTCTCAAAATTAAGGGGAGGGGTGGGGGT 1542  
DB 17422 TCAGCTGTGGGTGACAGAGTGAAGCCCGCTCTTAAAAAATGATATATGATTAAGCA 17481  
QY 1543 AAAATTAAGTTGAATCAAGTAACTTCTGGGACAGAACAA 1586  
DB 17482 AAAAATTAATTAATTAATTAATTAAGCTTCAAGACAGAGAGAA 17525

RESULT 10  
US-09-949-016-14577  
; Sequence 14577, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTUR, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949, 016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755



;; PRIOR FILING DATE: 2000-10-20  
;; PRIOR APPLICATION NUMBER: 60/237,768  
;; PRIOR FILING DATE: 2000-10-03  
;; PRIOR APPLICATION NUMBER: 60/231,498  
;; PRIOR FILING DATE: 2000-09-08  
;; NUMBER OF SEQ ID NOS: 207012  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 14577  
;; LENGTH: 678533  
;; TYPE: DNA  
;; ORGANISM: Human  
;; FEATURE:  
;; NAME/KEY: misc\_feature  
;; LOCATION: (1)...(678533)  
;; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14577

Query Match 10.5%; Score 219.8; DB 4; Length 678533;  
Best Local Similarity 50.9%; Pred. No. 1,5e-41;  
Matches 716; Conservative 0; Mismatches 662; Indels 29; Gaps 7;

QY 116 CTTCAAAATATCTTTTGTGAGACAGGGTCACTGTCAACCAGCTAGAG 175  
DB 405139 CCTCATATCTCTTTTGTGAGATGAGATCTCACTGTCTGCTGAGG 405198  
QY 176 TCCAGTGGCACTATGCTCAACAAGCTTCAAGGCTCAAGTATCTCC 235  
DB 405199 TGGAGTGTGTATCTTCACTCACTGTAACCTCCGCTCCAGGTTCAAGCATCTCT 405258  
QY 236 ACTTCAGCTCCCGAGTATGAGGACTACAGGCACTGCAACCCCAAGCTAATTTT 295  
DB 405259 GCTTCAGCTCCCGAGTATGAGGATTAACAGGATCAACATCCGATTAATTTT 405318  
QY 296 -----GTAGAGCAAGGTTTGTGAGTGTCTCAAGGCTGTGAACTCTGAGC 346  
DB 405319 GTAGTTTATGATAGAGCGGGTTTCAACATTTGGCCGGCTGTCTCAACTCTGACC 405378  
QY 347 TCAAGGATCCGGCACTCAAGCTCCCAAGTCTAGAGATTATAGCATGAGCCACTGT 406  
DB 405379 TCAAGTATCCGGCTCCGCTCCCAAGTCTGAGATTACATGCTGAGCCACCGC 405438  
QY 407 GCCCACTCACTTCAACGATTAATGTTTAACTTTT--AGATTCGGCTATGT 464  
DB 405439 CCCCAGCCATATTTCTTATATATCCCTGCTTCCATTTGCAATGATCTGTATG 405498  
QY 465 CTCACACCTTCTGCTACTCAACATCTCTTCTTAAGCAGTCTTCTCTAT 524  
DB 405499 CTTCCAGATGCTCTCCATATGCAATCTCTATCTTCCAAATTAATCTTCTCTGT 405558  
QY 525 GGTAAACATTTTATGAGTTTATTCATCTGCTTATTTTCTTATCTCTATACAGAA 584  
DB 405559 GCCAACTAGATCTTAAACAGATGAGTCACTTACCTCTGATTAATAATATGA 405618  
QY 585 TTGAATTTTCAATTAAGCACAATCTTCAATCTTGAATGAAGAAAAAATG 644  
DB 405619 TAACTATCACTGCAAGGAACTTGAACCAATTAACATCTTCTTTCAGG 405678  
QY 645 CATAGATTAGAAAGAAACCAATTTTAACTAATTTTGAATATAGTTCTATAT 704  
DB 405679 CTTATCCCTCTATGCTCTCTGCTGTGCAAGTACCTTATCTCAAAATAGTTCCAGTT 405738  
QY 705 AAACAACA-----AGATCTAGCCAGGTGCACTGCTCAATGCTTATCTCCAGA 755  
DB 405739 CTTTACAGTTCTAGATACATTGAGCCGGGCAAGTGGCTCAAGCTGTAATCCAGCA 405798  
QY 756 ATTTGGAAAGTGAAGTGAAGATGCTTGAAGCCAGGGTTCAAGCAAGCTGGCA 815  
DB 405799 CTTTGGAGGCGGAGGCGGGGAT--CAGAGGTGAGGAGTGAAGCATCTCTGCTTA 405856  
QY 816 ACATGAGAGATCCCATCTCTTCTTTTACACACACACACACACACACAATAAT 875  
DB 405857 ATCCGTTGAACCTCTCTTCTTAAATAAATAAATAATTAAGCCAGAGCTGTGGCGGG 405916

QY 876 CTGATAGCAACAGGTGCACTATTAACACAATTTGAGTATGATGACTTAATAAT 935  
DB 405917 CCCTGTATGTTCCAGTACTCTCCGAGGCTGAGGACAGGAAATGAGGATCCCGAGGC 405976  
QY 936 TCGAGTTATCACAACAATGTAATCAATGAAAGTCTGTATGATGATATGCCCCAC 995  
DB 405977 GAGCTTGCATGATGCGAGATGCGCCACTGCACTCCAGTGTGGCCGACAGACAGC 406036  
QY 996 AAAGTCAAGTATGCTAATATCTCTGTATTTTGTATTAATTAATAAGAAATG 1055  
DB 406037 TCGTCTCAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406096  
QY 1056 CTAGGTTTCACTGTTATTTTGTCCGACG-----TCTGTGACGCGCAGTTAGACGC 1110  
DB 406097 TTTGTCTATGCTATTTTCAATTCCTCTGAGTGTCTTCTCTGTGATGAATAATCTTCC 406156  
QY 1111 CCGTCAAGCCAGGAGGCTGAGCTTACAGTCACTGAGGTCACTGCGGCATTCATAT 1170  
DB 406157 ATACTCAAGATGAATTTTGAAGTTACTTCTTGTAAATCTTCAATGATTCAAAGT 406216  
QY 1171 ATTCGAGGCGGGGCTGCGCTTCCGGAACCCAGCTGCCCTCAGGGAGAGAGACAC 1230  
DB 406217 CAGGCTTTTCTATGTGAATTTATTTTACATATGCTTAAATAAATAAATAAATAA 406276  
QY 1231 ACTTAAGTATTGGGCGCGCTGTAGCTCATGCCCTGATCCAGCACTTGGGAGGC 1290  
DB 406277 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406336  
QY 1291 TGAGGCGTGAATATCTTGTGAGAGTTTGAACAGCTTACCACTTGGGAGAGC 1350  
DB 406337 TGAGGCGGTTGATCAAG--GTCAAGATTTGAAGCAAGCTTGGCAATATGTAAGC 406395  
QY 1351 CCTGTCCCTAAAAAATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 1410  
DB 406396 GCGTCTCTATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406455  
QY 1411 GCTACTCGGAGGCTGAGTGGAGAGATGCTGGGCTCA--GAGTTCCAGACTGCACTA 1469  
DB 406456 GCTCTTCAGGAGATGAGGACAGAGAAATCCCTGTAATGAGGAGCGGAGTTGCACTGA 406515  
QY 1470 GCCATGATGGCGGCACTGCACTCCAGC 1496  
DB 406516 GCCGAGAACGACCACTGCACTCCAGC 406542

RESULT 11  
US-09-949-016-14578  
; Sequence 14578, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949, 016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-10-03  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14578  
; LENGTH: 678533  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1) --(678533)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-016-14578



Query Match 10.5%; Score 219.8; DB 4; Length 678533;  
 Best Local Similarity 50.9%; Pred. No. 1,5e-41;  
 Matches 716; Conservative 0; Mismatches 662; Indels 29; Gaps 7;

QY 116 CTTCAAAATATCTTTTTTTTTTTTTTTTGTGAGACAGGGTCACTGTCAACCCAGGCTAGAG 175  
 DB 405139 CTTTCATATCTTTTTTTTTTTTTTTTGTGAGATGAGTCTCACTGTGTGCTAGGCTGAG 405198  
 QY 176 TCAGTGGGCACTATAGGCTCAACAGGCTCAACCTTCAGGCTCAGGTGATCCCTCC 235  
 DB 405199 TGAAGTGTGTGATCTCACTCACTGTATACCTCCGCTCCAGGTTCAAGGATCTCTCT 405258  
 QY 236 ACTTCAAGCTCCGAGTAGATGAGGACTAGGCACTGCCACCAACCCAGCTAATTTT 295  
 DB 405359 GCCTCAAGCTCTGAGTAGAGCTGGGATTAACAGGATGACCAACATGCTGATTAATTTT 405318  
 QY 296 -----GTAGACAAAGGTTTGGCATGTGTGTCCAGGCTGTGAACTCTGGGC 346  
 DB 405319 GTAGTTTATAGAGACGGGGTTTCACTGTGTGGCGGGCTGGTCTGAACTCTGACC 405378  
 QY 347 TCAAGGATCCGGCCACTCAAGCTCCCAAGTCTAGATTAATAGCATGAGCACTGT 406  
 DB 405379 TCAAGTATCCGGCTCGGCTCGGCTCCCAAGTCTGGGATTAATGATGAGCCACCGC 405438  
 QY 407 GCCAGGCTACCTTCAAGTATCTAATGTTACTTAATTTT--AGGATTGGGCTAATGT 464  
 DB 405439 CCGGACCCATATTTCTTAATCTATCCCTGCTTCAATTTGAGATGATCTGTTTGTAG 405498  
 QY 465 CTCAACAACCTTGTCTTACTCAACATCTGTCTCTTAAAGCACTAGCTTCTTCTAT 524  
 DB 405499 CTTCGCCAGATGTCTCTCCCTATGTCAATCTCTCAATCTCTCTCTCTCTCTCT 405558  
 QY 525 GCTTAACATTTTATAGATTTATTCATCTGCTTATTTTCTTATCTCTATACGAA 584  
 DB 405559 GCCAACTAGATTCCTTAAAAACAGTAAAGTCACTTCTCTGATTAATAATATGTA 405618  
 QY 585 TTGAATTTTTCATTAAGCACACTCATGTTTACATCTTGAATAAGAAAAAATATG 644  
 DB 405619 TAACTATCACTGCAAAAGAACTTGAATAACATTAATGATTTATCTCTTTAGG 405678  
 QY 645 CATAGATTAAGAAAAAACAATTTTATTAATTAATTAATTTTGAAGTATAGTTCTATAT 704  
 DB 405679 CTATCCCTCTATAGTCTCTGCTGTGCAAGTATCTTATCAAAATAGTTCCAGTT 405738  
 QY 705 AAACAACA-----AGATCTAGGCCAGGTGACGTGCTCATGCTGTATCCAGCA 755  
 DB 405739 CCTTAACAGTTCTAGATACATTTGAGGCGGAGGCTCAAGGCTGTATATCCAGCA 405798  
 QY 756 ATTTGGGAAGTCGAGGTGGAGAGATTGCTGAGGCGGAGGTTCAAGCAGGCTGGGCA 815  
 DB 405799 CTTTGGAGGCGGAGGCGGAGGAT--CAGAGGTCAAGAGATGAAACCAATCTCTGCTA 405856  
 QY 816 ACATGAGAGATTCCTCATCTCTTTCTTTACACACACACACACACACACAAATAT 875  
 DB 405857 ATCCGAGGAACCTGCTCTCTCTAATAAATAAATAAATAAATAAGCCGCTGGGCGG 405916  
 QY 876 CTGATGACAAACAGTGCATTTATCAACAATTTGAGTGTGAGTGAAGCTTAATATAT 935  
 DB 405917 CGGCTGTAGTCCAGCTACTCGGAGGCTGAGGACAGAGATGCGCTGAACCCGAGAGC 405976  
 QY 936 TCGAGTTATACCAACAACGTATAACTTAACATGAAAACGTCTGTGATCTATTTGCCAC 995  
 DB 405977 GGAAGCTTGACGTGAGGAGATGCGGCATGCACTCAGCTGTGGGACAGAGCAAGAC 406036  
 QY 996 AAGATCAGAGTACTGCTAATCTCTGTATTTGTATTAATTCATATATAAGGAATG 1055  
 DB 406037 TCGGTCTCAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406096  
 QY 1056 CTAGGTTTCAAGTTGGTATTTTGTCCGACGG-----TCTGTGACGGCAGGTTAAGAGC 1110  
 DB 406097 TTGTCTATGCTATTTTCAATTTGCTGTGAGTGTCTTCTCTGTGATGAAAAAATCTTTTC 406156

QY 1111 CCGTCAAGCAGAGGGGTGACCTTAGCACTGACAGGCTCCACTCGGGCAATCACTAT 1170  
 DB 406157 ATACCTCAAGATGAAATTTGAAATTAATCTCTTGTGAACCTTCTATATATCCAAAGT 406216  
 QY 1171 ATTCCGAGGCGGGGCTGTGCGCTTCCCGAACCCAGCTGCTCCAGGGAGAGAGACAC 1230  
 DB 406217 CAGGCTTTCTATGTGAAATTTATTTTACCAATGTCTAGTTAAAAAACAACAAAC 406276  
 QY 1231 ACTTAAGATTTTGGGCGGCGGTGTAGCTCATGCCCTGTATCCAGCACTTGGGAGGC 1290  
 DB 406277 AAAAAAAAAACAGACAGGACAGGTGTGTCTCAAGCTGTATATCCAGCACTTTGAGAGC 406336  
 QY 1291 TGAAGCGTGAATCACTTGTACAGAGATTGTGAGACCACTTACCCAACTTGGCGAGAC 1350  
 DB 406337 TGAAGCGGTGTGATCAAG--GTACAGAGTTTGAACACAGCTGTGGCCAACTATGTGAAC 406395  
 QY 1351 CCGTCCCTTAAAAAATTTTATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1410  
 DB 406396 GCGGTCTCTATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406455  
 QY 1411 GCTACTCGGAGGCTGAGGTGGAGATGCTGTGGGCTCA--GGAGTTCCAGACTGCACTGA 1469  
 DB 406456 GCTCTTCAAGAGCTGAGGAGAGATCCGTGAATCTGGGAGCGGAGGTTGCACTGA 406515  
 QY 1470 GCCATGATGCGGCGCACTGCACTCCAGC 1496  
 DB 406516 GCCGAGAGCCACCACTGCACTCCAGC 406542

RESULT 12  
 US-09-949-016-12513/c  
 ; Sequence 12513. Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; FILE REFERENCE: C1001307  
 ; CURRENT APPLICATION NUMBER: US/09/949, 016  
 ; CURRENT FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 12513  
 ; LENGTH: 103987  
 ; TYPE: DNA  
 ; ORGANISM: Human  
 ; US-09-949-016-12513

Query Match 10.5%; Score 219.2; DB 4; Length 103987;  
 Best Local Similarity 58.7%; Pred. No. 9.1e-42;  
 Matches 426; Conservative 0; Mismatches 283; Indels 17; Gaps 2;

QY 128 TTTTTTTTTTTTTTGTGAGACAGGCTCACACTGTCAACCCAGGCTAGAGTCCAGTGGCACT 187  
 DB 48509 TTTTTTTTTCTTTTGAAGAGATGTCTACACTGACCTTAGGCGCAGAAATSCAGTGGCATA 48450  
 QY 188 ATCATGGCTACACAGCTCAACCTTCAAGGCTCAGGTATCTCTCCATTCAAGCTCC 247  
 DB 48449 ATCTAGGCTCACGCAACCTGTGCACACAGGTTTCAACAATTTCTCTGCTCAGCTCC 48390  
 QY 248 CGAGTGAATGGAGCTACAGGCACTGCAACCAACCCCAAGCTAA-----TTTTGT 297  
 DB 48389 TGAAGTGTGAGACTACAGACACACGCAACGCTGTGTTAATTTGTATTTTATAGT 48330  
 QY 298 AGAGACAGGTTTTCATATTTGTCCAGGCTGTGCTTGAATCTCTGGGCTCAAGGAGATCC 357  
 DB 48329 AGAGACAGGTTTTCATATTTCAATCTCAGGCTGTGCTTGAATCTCTGACCTCAGGTGACC 48270

Qy	358	GGCACCCTCAGCCCTCCCAAGTGTGAGTAAATAGGCATGAGCAGCCATGCGCCACCTAC	417
Db	48269	ACCTCTCTGGCCCTCCCAAGTGTGAGTAAATAGGCATGAGCAGCCAGCCAGC	48210
Qy	418	CTTCACGATCTCACTGTGTACTAACTTTAGATTGGCCCTATGTCACACCTTCT	477
Db	48209	ATTTTGTAATAGGTACAAATGAGAGGGAAACCAAAAGTCTCAAGATTAATTAACCTT	48150
Qy	478	TGCTTACTCAACATCCCTGTCTCTTAAGCAGCAGTCTTCTCTATGTTAACTTTT	537
Db	48149	TACTATTTGTTTATCAGCGGAGAGCTTAAATAATGTTCTACTCTTTGATCAGTTAC	48090
Qy	538	TATGAGTTTATTCATCTGCTTATTTTCTTATCTCTATACAGATTAATTTTCA	597
Db	48089	TTCAATGTGAGATCTGATCTTAAGTATCTGAATATGCATACAGATATATTCAAAAAG	48030
Qy	598	AATTAAGCACACTCATCTTACATCTTTGAAATGGAATGGAATGATAGATTAGA	657
Db	48029	TGTTAACTTTAGCAATGTGAGGTGAATAATTTGGAAGACAACTTGTACATTTAA	47970
Qy	658	AGAAACCAATTTTAAATACTATATTTT-----GAAGTATAGTCTATATTAAACA	710
Db	47969	TACAAGTATCAAAATCCAAATTTGCTGTGTGTAGATATTTAAATCCATATTAACA	47910
Qy	711	CAAGATTTAGCCAGGTGACAGTGGCTCATGCTCTGTAATCCACGAATTTGGGAAGTCAG	770
Db	47909	CAAGTCTGGGCTGGGCGCGGTGCTCATGCTCTGTAATCCACGAACCTTGGGGTGGCTAG	47850
Qy	771	GTGGAGAGATTGCTTGGAGCCAGGGGTTCAAGACAGCCTGGGCAACATGAGAGATTCC	830
Db	47849	GCAGGCGAGATCTCTGAGGTCAAGAGATTGAGACTAGCTTGCGCAACATGTGGAAACCC	47790
Qy	831	CCATCT 836	
Db	47789	ATCTCT 47784	

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RESULT 13
US-09-949-016-17050/C
; Sequence 17050, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17050
; LENGTH: 103988
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-17050

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Query Match	10.5%	Score 219.2;	DB 4;	Length 103986;
Best Local Similarly	58.7%;	Pred. No. 9.1e-42;		
Matches 426; Conservative	0;	Mismatches 283;	Indels 17;	Gaps 2;

OY	128	TTTTTTT	TTTTTTGAGACAGGGTCACACTGCACCAGGTAGATCAGTGCACT	187
D6	48509	TTTTTTT	TCTTTAGACAGAGCTACTCACTTAGCCAAATGCAATGCGCATTA	48450
OY	188	ATCATGCTCACACAGCCTCAACCTTCAGGGCTCAGTGATCTCTCCACTTCAGGCTCC		247

Db	4844	ATCTAGGCTACATCGCAACCTCTGCGCACAGGGTTCAACAATTTCTCTGCTCAGCTCC	48330
Qy	248	CGAGTAGATGGGACTACAGGACCTGCGCACCCCGGAGCTAA-----TTTTGT	297
Db	48389	TGAGTGGCTGGGACTACAGGACACCGCCACAGCGCTGGTAAATTTGTATTTTTAGT	48330
Qy	298	AGAGACAAAGTTTTGGCATGTTGCCAGGCTGGTCTGAACTCTGGGGCTCAAGGGATCC	357
Db	48329	AGAGACAGGGTTTTACATGCTACACAGGCTGGTCTGAACTCTGACTTCAGGTGACCC	48270
Qy	358	GGCCACCTCAGCCTCCCAAGTGTCTAGATTATAGCATGAGCCACTGCGCAGCTAC	417
Db	48269	ACCCCTCTGGCCTCCCAAGTGTCTAGATTACCGGTGTGAGCGAAGGCGCCAGCGAC	48210
Qy	418	CTTCAAGTATCTAACTGGTTACTAACTTTAGAGATTGGGCTATGTCTCAACACTCT	477
Db	48209	ATTTTGTATATAGGTACAAATGGAAGAGGAAACCAAAAGTCTCAAGATTAATAAATT	48150
Qy	478	TGCTTACTCAACATCCCTGTCTCTTAAGCCACTAGCTTCTCTGATGGTTAACTTT	537
Db	48149	TACTATTTTGTTTTATTCAGCGGAGAAAGCTTAATAAATGTCTACTCTTGTATCAGTAC	48090
Qy	538	TATGATTTTATTCATCTGCTTATTTTCTTATCTCTATPACAGATTGAATATTTTCA	597
Db	48089	TTTCATGTGTAGAAATCGATCTAAGTATCGAAATCCGATCAGATATATTTCAAAAAGA	48030
Qy	598	AATTAACCAACATCATGTTACATCTTTGAAATGGAATAAATAATGCATAGATTTAGAA	657
Db	48029	TGTTTATCTTTAGCAATGTGCGAGGTGAAATATATGGAACAACTTTGTACCATTTTAA	47970
Qy	658	AAGAAACCAATTTTAAATTAATATATTTT-----GAAGTATAGTCTATATTAACA	710
Db	47969	TACAAAGTATCAAAATCCAAATTTGCTGTGTGTATGATTAATTAATTAACCTCATAAACA	47910
Qy	711	CAAGATCTAGCCAGGTGCAATGGCTCAATGCTGTAAATCCAGCAATTTGGGAAGTCAG	770
Db	47909	CAAGTCTGGGCGGGGCGGCGGTGCTCAATGCTGTAAATCCAGCAATTTGGGTGGCTGAG	47850
Qy	771	GTGGAGAGATTGCTTGAAGCGAGGGGTTTCAAGACAGCCTGGGCAACATGAGAGATTCC	830
Db	47849	GCAGGCGAATCTCTGAGGTCAAGAAATTTGAGACTAGCTGGCGCAACATGTGAACCCC	47790
Qy	831	CCATCT 836	
Db	47789	ATCTCT 47784	

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1      RESULT 14
2      US-09-949-016-12086
3      ; Sequence 12086, Application US/09949016
4      ; Patent No. 6812319
5      ; GENERAL INFORMATION:
6      ; APPLICANT: VENTER, J. Craig et al.
7      ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
8      ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
9      ; FILE REFERENCE: CLO01307
10     ; CURRENT APPLICATION NUMBER: US/09/949,016
11     ; CURRENT FILING DATE: 2000-04-14
12     ; PRIOR APPLICATION NUMBER: 60/241,755
13     ; PRIOR FILING DATE: 2000-10-20
14     ; PRIOR APPLICATION NUMBER: 60/237,768
15     ; PRIOR FILING DATE: 2000-10-03
16     ; PRIOR APPLICATION NUMBER: 60/231,498
17     ; PRIOR FILING DATE: 2000-09-08
18     ; NUMBER OF SEQ ID NOS: 207012
19     ; SOFTWARE: FastSeq for Windows Version 4.0
20     ; SEQ ID NO 12086
21     ; LENGTH: 152582
22     ; TYPE: DNA
23     ; ORGANISM: Human
24     ; FEATURE:
25     ; NAME/KEY: misc_feature
26     ; LOCATION: (1)...(152582)

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Search completed: September 1, 2005, 20:41:07  
Job time : 473.266 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 1, 2005, 20:20:43 ; Search time 2201.31 Seconds  
(without alignments)  
6202.889 Million cell updates/sec

Title: US-09-909-317-5

Perfect score: 2085  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapept 1.0

Searched: 733684 seqs, 327445616 residues

Total number of hits satisfying chosen parameters: 14677368

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
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- 10: /cgn2\_6/ptodata/2/pubpna/US09\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US10\_PUBCOMB.seq:\*
- 22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 23: /cgn2\_6/ptodata/2/pubpna/US11\_PUBCOMB.seq:\*
- 24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2085	100.0	2085	11	US-09-909-317-5
2	1223.6	58.7	10619	14	US-10-239-676-1
3	1223.6	58.7	10619	15	US-10-311-455-43
4	1223.6	58.7	10619	15	US-10-240-453-1
5	1223.6	58.7	10619	18	US-10-240-589C-1
6	1203.2	57.7	10619	14	US-10-239-676-2
7	1203.2	57.7	10619	15	US-10-311-455-44

C	8	1203.2	57.7	10619	15	US-10-240-453-2	Sequence 2, Appli
C	9	1203.2	57.7	10619	18	US-10-240-589C-2	Sequence 2, Appli
C	10	699.4	33.5	844	13	US-10-027-632-154183	Sequence 154183,
C	11	699.4	33.5	844	17	US-10-027-632-154183	Sequence 154183,
C	12	265.4	12.7	665	9	US-09-960-253-107	Sequence 107, App
C	13	261.4	12.5	3859	9	US-09-864-864-300	Sequence 300, App
C	14	261.4	12.5	3859	14	US-10-097-340-3	Sequence 3, Appli
C	15	261.4	12.5	3859	14	US-10-163-587A-3	Sequence 3, Appli
C	16	259.2	12.4	4100	20	US-10-723-860-6526	Sequence 6526, Ap
C	17	255	12.2	652	20	US-10-363-345A-33299	Sequence 33299, A
C	18	255	12.2	652	20	US-10-363-345A-33300	Sequence 33300, A
C	19	255	12.2	652	21	US-10-363-483A-33259	Sequence 33259, A
C	20	255	12.2	652	21	US-10-363-483A-33300	Sequence 33300, A
C	21	247.8	11.9	654	20	US-10-363-483A-33300	Sequence 33300, A
C	22	247.8	11.9	654	20	US-10-363-345A-11999	Sequence 11999, A
C	23	247.8	11.9	654	21	US-10-363-345A-12000	Sequence 12000, A
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C	25	244.6	11.7	1614	9	US-09-764-860-986	Sequence 12000, A
C	26	244.6	11.7	1614	9	US-09-764-860-987	Sequence 986, App
C	27	244.6	11.7	1614	14	US-10-074-095-986	Sequence 987, App
C	28	244.6	11.7	1614	14	US-10-074-095-987	Sequence 987, App
C	29	244.6	11.7	1614	17	US-10-212-872-986	Sequence 986, App
C	30	244.6	11.7	1614	17	US-10-212-872-987	Sequence 987, App
C	31	243.8	11.7	3686	15	US-10-084-817-316	Sequence 316, App
C	32	239.2	11.5	722	9	US-09-960-253-106	Sequence 106, App
C	33	234.8	11.3	3861	17	US-10-334-143-100	Sequence 100, App
C	34	227.4	10.9	57181	21	US-10-741-600-17781	Sequence 17781, A
C	35	227.2	10.9	107820	19	US-09-792-616-1	Sequence 1, Appli
C	36	227.2	10.9	107820	19	US-10-764-328-1	Sequence 1, Appli
C	37	227.2	10.9	172984	21	US-10-484-577-661	Sequence 661, App
C	38	226	10.8	67783	11	US-09-997-732-238	Sequence 238, App
C	39	220.6	10.6	370	20	US-10-723-860-2326	Sequence 2326, App
C	40	219.8	10.5	32191	17	US-10-074-024-446	Sequence 446, App
C	41	219.2	10.5	96595	17	US-10-034-650-34	Sequence 34, Appli
C	42	218.6	10.5	147620	20	US-10-723-860-2768	Sequence 2768, App
C	43	217.6	10.4	166536	22	US-10-981-277-35	Sequence 35, Appli
C	44	217.6	10.4	169636	19	US-10-322-696-70	Sequence 70, Appli
C	45	217.2	10.4	28693	21	US-10-741-600-17761	Sequence 17761, A

#### ALIGNMENTS

RESULT 1  
US-09-909-317-5  
; Sequence 5, Application US/0909317  
; Publication No. US20040152075A1  
; GENERAL INFORMATION:  
; APPLICANT: Betty P. Tsao (Inventor)  
; APPLICANT: Rita M. Cantor (Inventor)  
; APPLICANT: Jerome I. Rotter (Inventor)  
; TITLE OF INVENTION: Genetic Marker Test for Lupus  
; FILE REFERENCE: 18810-82152  
; CURRENT APPLICATION NUMBER: US/09/909,317  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: 09/280,181  
; PRIOR FILING DATE: 1999-03-29  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 2085  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-909-317-5

Query Match 100.0%; Score 2085; DB 11; Length 2085;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2085; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 1 TTtagggatgatatagctgtcAACCGAGAGCGCATGATCGCTTTTGACTTGCTA 60

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QY 121 AAATATCTTTTTTTTTTTTTTTTGAAGAGGCTCACTGTGCACTCCAGGCTAGAGTCCAG 180  
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QY 1561 AAGTAAAGCTTCTGGGACAGAACTCAAGAGGAGGCTGCGCGGCTCTCCAAAGACTA 1620  
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QY 1681 AGGCGCCCGGAAATCTCCGCCCCCGGCGGAGAGGCTCGGCGCCGCGCCGCGCG 1740  
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QY 1741 TGGAGCGGGGTTCCGTTGCGGTTCCCGGAGCAGGATCAGCAATCTATCAGGGAACGCG 1800  
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QY 1801 GTGGCCGGTGCAGGCTGTGTTGCGTGCCTCTGAGCGCTCAGCGGTGAGGAGCG 1860  
Db 1801 GTGGCCGGTGCAGGCTGTGTTGCGTGCCTCTGAGCGCTCAGCGGTGAGGAGCG 1860  
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Db 2041 CCGGATGGCATCATGTTGCAAGTCCGGGCGCTGTGCGGCGGGG 2085

## RESULT 2

US-10-239-676-1  
; Sequence 1, Application US/10239676  
; Publication No. US20030082609A1  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: RIPEENBROCK, Christian  
; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation

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FILE REFERENCE: 5013.1003
CURRENT APPLICATION NUMBER: US/10/239.676
CURRENT FILING DATE: 2002-05-24
PRIOR APPLICATION NUMBER: PCT/EP01/03968
DE 10019058.8
DE 10019173.8
DE 10032529.7
DE 10043826.1
PRIOR FILING DATE: 2001-04-06
2000-04-06
2000-04-07
2000-06-30
2000-09-01
NUMBER OF SEQ ID NOS: 228
SEQ ID NO 1
LENGTH: 10619
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-239-676-1

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Query Match	58.7%;	Score 1223.6;	DB 14;	Length 10619;
Best Local Similarity	77.2%;	Pred. No. 4.6e-285;		
Matches 1618; Conservative	0;	Mismatches 455;	Indels 19;	Gaps 10

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QY	121	AAATATCTTTTTTTTTTTTTTTTGAAGAGGTGTCAACTGTCACCAGGCTAAGTCCAG	180
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QY	181	TGGCATATCATAGGTGTCAACAGCTTCACTTCAAGGCTCAGGTATCTCCACTTC	240
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Db	3354	AGTTTTGAGATGATGGGATTAAGATTTGTTATTTATTTTGAATTTTGTGTA	3413
QY	301	GACAAGTTTTGGCATGTGTGTCAAGGCTGTCTTAACCTCGGGCTCAAGGATCCGAGC	360
Db	3414	GATTAAGTTTTGTATATGTTGTGTAGGTTGGTTTGAATTTTGGGTTTAAAGGATTCGAT	3473
QY	361	CACCTCAGCCCTCCAAAGTGTAGGATTAAGCATGAGCATGTGCCAGCTTACCTT	420
Db	3474	TATTTAGTTTTTAAAGTGTAGGATTAAGTATGATTAATGTTGTTAGTTATTTT	3533
QY	421	CAAGGTATCTAAGTGTACTTATAGATTTGGCTATGTCTCAACCTTCTTGC	480
Db	3534	TAAAGTATTTAATGGTATTATTTTGAAGTTGGTTTAAAGTTTAAATTTTTTGT	3593
QY	481	TTACTCAACATCTGTCTCTTAAGCCACTAGCTCTCTCATAGGTTAACACTTTAT	540
Db	3594	TTATTTATATTTTTTGTTTTTTAAGTATTTAGTTTTTTTTTATGTTAAATTTTTTAT	3653
QY	541	GAGTTTATTCATCTGCTTATTTTCTATGCTCTATACAGAAATGATATTTTCAAT	600
Db	3654	GAGTTTATTTATTTGTTATTTTTTTTATTTTATTTAATGAAATGAAATTTTTTAAT	3713
QY	601	AAAGCACTCATGTTACATCTTTGAATGGAAAAAAAATGATNGATTTAGAAAAG	660
Db	3714	AAAGTATTTATGTTATTAATTTTGAAT - GAAAAAAAATGATNGATTTAGAAAAG	3772
QY	661	AAACCAATTTTATTAACATATTTTGAAGTATAGTCTATATTTAAACAACAAGTCTAG	720
Db	3773	AAATTTAATTTTAAATTAATTTTGAAGTATAGTCTTATTTAAATTAATTAAGTTTGA	3832

[illegible]



QY 1792 GGAACGCGGTCGCGCGTGTGCGTG--CGCTGCGCGCTCAAGCCGCGG 1849  
DB 4911 GGAACGCGGTCGCGTGTGCGCGTGTGCGCGTGTGCGCGTGTGCGCGG 4970  
QY 1850 CTAGGTCGAGCGCAAGCGAGCGCGCGAGCGCGCAAGCGTGTCTAGAGTCGAGCGTG 1909  
DB 4971 TTGGGTCGAGCGTACGCGAGCGCGCGAGCGCGTAA--GCGTGTGTAGGTCGAGCGTG 5027  
QY 1910 GCGTCGAGCTTTGCGCGCACTAGGAGAGATGCGAGTCTTTCGATTAAGCTTAT 1969  
DB 5028 GGTTCGAGCTTTGCGCGTGTGCGCGTGTGCGCGTGTGCGCGTGTGCGCGG 5087  
QY 1970 CGAGTCGAGTACCGCAAGAGCGCGCGCTCTTCGCAAGATGCAAGCGAGAGATCCC 2029  
DB 5088 CGAGTCGAGTACCTTAAGAGCGCGCGCTTTTGTAAAGATGACGAGATATTTT 5147  
QY 2030 AAGGACCTCGTCGAGATGCGCATATGTCGAGTGTGCGCGCGCTGTGCGCGG 2085  
DB 5148 AAGGATTCGTTGCGAGTGTATTAATGATGAGTGTGCGCGGCTTTGTGCGCGG 5203

## RESULT 3

US-10-311-455-43  
Sequence 43, Application US/10311455  
Publication No. US20030143606A1  
GENERAL INFORMATION:  
APPLICANT: OLEK, Alexander  
APPLICANT: PIEPERBROCK, Christian  
APPLICANT: BRILLIN, Kurt  
TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Detect  
TITLE OF INVENTION: cytosine methylation  
FILE REFERENCE: 5013.1014  
CURRENT APPLICATION NUMBER: US/10/311,455  
CURRENT FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: PCT/EP01/07537  
PRIOR FILING DATE: 2001-07-02  
PRIOR APPLICATION NUMBER: DE 10032529.7  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: DE 10043826.1  
PRIOR FILING DATE: 2000-09-01  
NUMBER OF SEQ ID NOS: 2424  
SEQ ID NO 43  
LENGTH: 10619  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-311-455-43

Query Match 58.7%; Score 1223.6; DB 15; Length 10619;

Best Local Similarity 77.2%; Pred. No. 4.6e-289;  
Matches 1618; Conservative 0; Mismatches 459; Indels 19; Gaps 10;

QY 1 TTATGAGATATATATGTTGCAACCCAGAGATGCGATGATGCGCTTTGACTTGCTCA 60  
DB 3116 TTATGAGATATATATGTTGCAACCCAGAGATGCGATGATGCGCTTTGACTTGCTCA 3175  
QY 61 TTCTTAAGTAAACTTTATTTGTCATCATATTTTCCACTATTCGTTACCTTA 120  
DB 3176 TTCTTAAGTAAACTTTATTTGTCATCATATTTTCCACTATTCGTTACCTTA 3235  
QY 121 AAATATCTTTTTTTTTTTTTTTGAGACAGAGTCAACCTGTCACCCAGGCTAGAGTCCAG 180  
DB 3236 AAATATCTTTTTTTTTTTTTTTGAGATAGAGTCAACCTGTCACCCAGGCTAGAGTCCAG 3293  
QY 181 TGCGACTATATGCGTCAACAGCTCAACCTTCAGGCGTCAAGGATCTCCCACTTC 240  
DB 3294 TGCGACTATATGCGTCAACAGCTCAACCTTCAGGCGTCAAGGATCTCCCACTTC 3353  
QY 241 AGCCTCCGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAG 300  
DB 3354 AGCCTCCGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAGTACGAG 3413

QY 301 GACAAAGTTTGGCAATGTTGTCACAGCTGCTTTAACTCCTGGGCTCAAGGATCCGCG 360  
DB 3414 GATTAAGTTTGGTATGTTGTTAGCTTGTTCCTAAATTTTGGGTTAAAGGATTCGCGT 3473  
QY 361 CACCTCAGCTCCCAAGGTCAGGATTAATAGGATGAGCCACATGCGCCAGCTTACCT 420  
DB 3474 TATTTAGTTTAAAGGTTAGGATTAATAGGATTAATAGGATTAATAGGATTAATAGG 3533  
QY 421 CAACGTATCAACCTGTTACTAATCTTTAGAGATTCGCGCTATGCTCAACACTTCG 480  
DB 3534 TAAAGTATTAATGCTTATTAATTTTAAAGATTCGCTTATGTTTAAATTTTGT 3593  
QY 481 TTACTCAACATCTTGTCTCTTAAGCCACTAGCTCTTCTCATAGGTTAACTTTTAT 540  
DB 3594 TTACTCAACATCTTGTCTCTTAAGCCACTAGCTCTTCTCATAGGTTAACTTTTAT 3653  
QY 541 GAGTTTATTCATCTGCTATTTTCTTATCCTCTATAACGAATGATATTTCAAT 600  
DB 3654 GAGTTTATTCATCTGCTATTTTCTTATCCTCTATAACGAATGATATTTCAAT 3713  
QY 601 AAGGACACTCATGTTTACATCTTTGAAATGGAATGGAATGATGATTAAGAAAG 660  
DB 3714 AAGGATATTTATGTTATATTTTGAAT--GAAAAAATGATGATTAAGAAAG 3772  
QY 661 AAACCAATTTTAACTATATTTTGAAGTATAGTCTATATTTAAACAAGATCTAG 720  
DB 3773 AAATTAATTTTAACTATATTTTGAAGTATAGTCTATATTTAACTAAGATTTAG 3832  
QY 721 GCGAGTACAGTGTGCTATGCTGATCCGCAATTTGGGAATTCGAGGTCGAGGAT 780  
DB 3833 GTTAAAGTATGAGTGTGTTATGTTTGAATTTTGAATTTGGGAATTCGAGGTCGAGGAT 3892  
QY 781 TGCTTGAAGCCAGGGGTTCAAGACAGCCTGGCAACATGAGAGATTCCTCATCTTT 840  
DB 3893 TGCTTGAAGCCAGGGGTTCAAGACAGCCTGGCAACATGAGAGATTCCTCATCTTT 3952  
QY 841 CTT-----TACACACACACACACACACACAAATATCTGTATGACACAGGTGAC 894  
DB 3953 TTTTAT 4012  
QY 895 TCATTAACCAATTTGAGTGTGATGAGTGAAGTGAATTAATATTTGAGTATCCCAACAC 954  
DB 4013 TTTAT 4072  
QY 955 TGTAACTTAACATGAAACGTCGTGATGATATTTCCACAACTCAGGCTACTGCTTA 1014  
DB 4073 TGTAACTTAACATGAAACGTCGTGATGATATTTCCACAACTCAGGCTACTGCTTA 4132  
QY 1015 ATACTCTGTGATTTGTGAG-TAAATTCATATTAAGAAATGCTAGGTTCAAGTGGTAT 1073  
DB 4133 ATACTCTGTGATTTGTGAGTAAATTTTAAATTAAGAAATGCTAGGTTTGTGAGTAT 4192  
QY 1074 TTTTCCGAGCGGTCGTGAGCGGAGGTTAAGCCGCTCCAGCCAGGAGGTCGAGC 1133  
DB 4193 TTTTCCGAGCGGTCGTGAGCGGAGGTTAAGCCGCTCCAGCCAGGAGGTCGAGC 4252  
QY 1134 CTAGACTGCAAGGTCCTCTGCGGCACTAATATTTCCGAGCGGCGCTGCGC 1193  
DB 4253 TTAGATTTGATAGGTTTATTTCCGCTTAATTAATATTTTCCGAGCGGCGG-TCGCT 4311  
QY 1194 TTCCCGAGCCAGCTGCCCTCAGGAGGAGAGAGACACTTAAGATTTGGGCGCGCT 1253  
DB 4312 TTTCGGAATTTAGTTTGTGAGGAGAGAGATTTTAAAGATTTGGGCGCGCT 4371  
QY 1254 GGTACTCATGCGCCTGATCCAGACCTTCGAGGTCGAGGCGGAGATGACTGTAG 1313  
DB 4372 GGTACTCATGCGCCTGATCCAGACCTTCGAGGTCGAGGCGGAGATGACTGTAG 4431  
QY 1314 CAGAGTTTGAAGACAGTCTAGCCCACTTGGGAGACCTTGTCCCTAAAAAAATTTT 1373  
DB 4432 TAGAGTTTGAAGATTTAGTTTATTTTGGGAGATTTTGTTTTAAAAAAATTTT 4491  
QY 1374 TTTAATTAAGCAAGTTGTGTGAGCGCTGTAGTCCAGCTACTCGGAGGCTGAGGTGG 1433





QY	899	TCATTAACCA	CAATTTCCAG	TAGTAN	AGCTAA	TAAATTTCCAG	TATACCA	CAAC	954			
Db	4013	TTATTAATTA	TAATTTCCAG	TAGTAN	AGCTAA	TAAATTTCCAG	TATTAATTA	TAT	4072			
QY	955	TGTAAACT	TAACAT	TGAAAA	CGTCTG	ATGACAT	ATTGCC	CAAAATCA	CAAGTACTGCTA	1014		
Db	4073	TCTAAAGTAA	TATGAAA	ACGTTG	TGATGAT	TATTTGTTTA	TAAAGTTA	TAGGTA	TTGTTA	4132		
QY	1015	AATCTCTCTG	TAATTTGATG	-TAAATTCAT	ATAA	AGAAATGCTA	NGTTTCA	GTTCAG	TTTGGTAT	1073		
Db	4133	AATATTTTGG	TAATTTGATG	TAAATTTA	TAAAGAAATG	TTATGTTT	AGTTT	AGTTT	AGTTGAT	4192		
QY	1074	TTTGTCCCGA	CGGTCGTG	GAAGGGA	AGGTTAA	AGCCCGTCA	AGCCAG	CAAGAGG	GGTGCAT	1133		
Db	4193	TTTGTTCGAC	CGGTTGTG	GAAGGGA	AGGTTAA	AGCCGTTCA	AGTTAA	AGGAGG	GGTGCAT	4252		
QY	1134	CTAGACA	CTGACAGG	GTCCA	CTTCGGG	CCAA	TCAATATAT	TTC	CCGAGCGGGG	CGTGGC	1193	
Db	4253	TTAGTA	TTGTAG	GGTTTAT	TTTCGGG	TTATTA	TTATTTT	CGAGGG	GGGGG	-TTGGT	4311	
QY	1194	TTCCCGGA	CCCA	CGTGCCT	CA	GGGGA	AGAGACA	CACTTA	AGA	GTTGGG	CCGGCT	1253
Db	4312	TTTTCGA	ATTATG	TTGTTT	TAGGGGA	AGAGATA	TTTAA	AGTTT	GGGGT	CGCGCT	4371	
QY	1254	GGATGCTCA	TGCCCTGAT	CCAGAC	CTTCGGG	AGGCTGA	GGGCGGA	AGATCA	CTGTAG	1313		
Db	4372	GGATGATAT	GTTTTGAT	TTTATG	TATTCGG	AGGCTGA	GGGCGGA	AGATTA	TTTGTAG	4431		
QY	1314	CAGAGT	TTGGA	CCAGTCT	CTAGCCAA	CTTGCG	AGACCTTG	CCCTA	AAAAAA	TTTTTT	1373	
Db	4432	TAGGAT	TTGGA	TATG	TTATG	TATTTGG	GGAATTT	TGTTTT	TA	AAAAAA	TTTTTT	4491
QY	1374	TTTTAAT	TAGCA	ATTGTG	TGAGCG	CTGTAG	TCCAG	CTACT	CGGA	AGCTGA	GTGG	1433
Db	4492	TTTTAAT	TAGTAT	GTTGTG	TGAGCG	CTGTAG	TTCG	AGGTT	AGTTT	AGTTT	AGTTT	4551
QY	1434	AGGATCG	CTGGCT	CA	GAAGTTCC	AGACTGA	AGCA	TATG	GGCGG	CACTG	CACTCC	1493
Db	4552	AGGATCG	CTGGCT	CA	GAAGTTT	AGATTG	ATGATG	ATGATG	ATGATG	ATGATG	ATGATG	4611
QY	1494	AGCGCG	TAGACA	CTCAG	TCTCA	AAAAA	TAAAGGG	GAGGG	GTGGGG	GTAAAT	TTAGTTG	1553
Db	4612	AGCGCG	TAGACA	TTTATG	TTTAAAA	TAAAGGG	GAGGG	GTGGGG	GTAAAT	TTAGTTG	4671	
QY	1554	TGAAT	CAATGA	AGATTC	CTGGGA	CAGAA	CAATCA	AAAGGG	TGGCG	CCGGTCT	CTCAA	1613
Db	4672	TGAAT	TAATGA	AGATTT	TTTGGGA	TAGAA	TATTA	AAAGGG	TGGCG	CTCGGG	TTTTTAA	4731
QY	1614	AAGAGT	ACTAG	CTCAG	CCCAAG	CCCGCT	CGGCCCC	CAAGG	CAAGCG	CCGACAG	CTCC	1673
Db	4732	AAGAGT	ACTAG	CTCAG	CCCAAG	CCCGCT	CGTCTT	TTTA	-GGTAC	CGGTCT	AGATTTT	4790
QY	1674	ACCCGG	CAGG	CCCGCG	GAATCT	CGGCCCC	CCCGG	CGGAC	AGGCG	CGGCG	-CCGCG	1732
Db	4791	ATTCGG	TAGG	CCGT	CGGGA	AAATTTG	CTTTT	CGGT	CGTGA	GGGCG	CGCGTCT	4855
QY	1733	CGGCCCC	TGA	CCGGG	TTCCGT	-GGCT	TTCCG	CGG	CAAG	CATCA	CAATCT	1791
Db	4851	TGCTTT	CGTGA	CCGGG	TTCCGT	TTCCG	GGTTAG	TA	TA	TA	TA	4910
QY	1792	GGAA	CGGCG	GTGG	CGGCG	TGTCG	GTG	CGG	CGTCA	CCGCG	GGGG	1849
Db	4911	GGAA	CGGCG	GTGG	CGGCG	TGTCG	GTG	CGG	CGTCA	CCGCG	GGGG	4970
QY	1850	CTGGG	TGA	CGGCA	CGGCG	AGGCG	AGGCG	AGGCG	AGGCG	AGGCG	AGGCG	1909
Db	4971	TTGGG	TGA	CGGCA	CGGCG	AGGCG	AGGCG	AGGCG	AGGCG	AGGCG	AGGCG	5022
QY	1910	GGCTTC	CGGA	GCTTTG	CGGCA	CTTAA	GGAGAT	TGCG	AGATCT	TCGAT	TAAGCT	1968
Db	5028	GGTTTT	CGGA	GCTTTT	CGGCG	TAGTTA	GGAGAG	TGCG	AGATCT	TCGAT	TAAGTTAT	5087
QY	1970	CGAGT	GAGTAC	CGCA	AGGCGG	CGCCTT	TTCAG	AAAT	TGAC	GCAG	AGCAT	2023

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Db      5088 CGAGTCCAGTACGTTAGTACCGCGCGCGTCTTTTGTAAAGAAATGTACGAGAGATTTT 5147
Qy      2030 AAGCACTCGCTCCGATGCGCATCATGTCACAGTGCGGCCGCTGTCCGCGGG 2085
Db      5148 AAGATTCTGTTGCGATGTTATATTAGTGTAGTGCGGGTTTGTGCGGGCGCG 5203

RESULT 5
US-10-240-589C-1
; Sequence 1, Application US/10240589C
; Publication No. US2004076956A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with
; TITLE OF INVENTION: DNA repair
; FILE REFERENCE: 5013.1008
; CURRENT APPLICATION NUMBER: US/10/240, 589C
; PRIOR APPLICATION NUMBER: PCT/EP01/03972
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 148
; SEQ ID NO 1
; LENGTH: 10619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-589C-1

Query Match      58.7%; Score 1223.6; DB 18; Length 10619;
Best Local Similarity 77.2%; Pred. No. 4.6e-289;
Matches 1618; Conservative 0; Mismatches 459; Indels 19; Gaps 10;

Qy      1 TTTAGGGATGATATATGTTGTCAACCCAGAGTGCATGATGCGCTTTTGACTTGTCTCA 60
Db      3116 TTTAGGGATGATATATGTTGTAAATTATAGAGATGATAGATTATGTTTGGATTGGTTA 3175
Qy      61 TTCTCTAGTAAACTTTTATTTGTTGCATCATATTTTCCACTTATCTGTTTACCTTCA 120
Db      3176 TTTTAAAGTAAATTTTATTTGTTTATTTATATTTTATTTATTTTATTTTATTTTATTTA 3235
Qy      121 AATATATCTTTTTTTTTTTTTTTTGTAGACAGGGTCACTGTCAACCCAGGCTAGAGTCAG 180
Db      3236 AATAA--TTTTTTTTTTTTTTTTTTGAAGTATATTTGTTATTTAGTTAGAGTTTAA 3293
Qy      181 TGGCATATCATGCGCTCACACAGCCTCAACTTCAGGGCTCAGGTATCTCCCACTTC 240
Db      3294 TGGATATATATATGTTATATATAGTTTAAATTTTAAAGGTTTATGATTTTATTTT 3353
Qy      241 AGCTCCCGATATATGAGACTACAGGACCTGCGACACCCCGAGCTAATTTTGTAGA 300
Db      3354 AGTTTTCGATATAGTGGATATATAGTATTTGTTATATTTTATTTTATTTTGTAGA 3413
Qy      301 GACAAGGTTTTGCGATGTGTGTCACAGGCTGTGCTTGAATCCTGCGGCTCAAGGATCCGGC 360
Db      3414 GATAAGGTTTTGTATATGTTTGTAGGTTGGTTTGAATTTTGGGTTTAAAGGATTCGGT 3473
Qy      361 CACCTCAGCCCTCCAAAGTGTCTAGATTTATAGCATGAGCCATCTGSCCAAGCTTACTT 420
Db      3474 TATTTTATGTTTTTAAAGTGTATAGATTTATATAGTATATGTTATGTTTATGTTATTTT 3533
Qy      421 CAAGTATCTTACTGTGTTACTTAACTTTTAAAGATTGGCGCTATATGCTACAAACTTTTTCG 480

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Db 3534 TAAAGTATTTAATGTTATTTAATTTTAAAGATTCGGTTATATGTTTATTAATTTTGT 3593
Qy 481 TTACTCAACATCCTGTCTCTTAAGCAGCTATCTTCTCTATAGTTAAACATTTTAT 540
Db 3594 TTATTTAATATTTTGTTTTAAAGTATATGTTTATTTTAAAGTATATTTTAT 3653
Qy 541 GAGTTTATTCATCTGCTATTTTCTTATCTCTATACAGAAATGATATTTCAAT 600
Db 3654 GAGTTTATTTATTTGTTATTTTATTTTATTTTATATGAAATGAAATTTTAAAT 3713
Qy 601 AAAGCAACATCTATACATCTTTGAAATGAAAAAATTCATATGATTTGAAAG 660
Db 3714 AAAGTAAATATATGTTAATTTTGAAT -GAAAAAATATATAGATTTGAAAG 3772
Qy 661 AAACCAATTTTAACTAATTTTGAAGTATGTTATATTAACAACAAGATCTAG 720
Db 3773 AAATTAATTTTAATTAATTTTGAAGTATGTTTATTTAATTAATTAAGATTTAG 3832
Qy 721 GCCAGGTGCAATGCTCATGCTGTAAATCCAGCAATTTGGAAAGTCAGGTGGAGAT 780
Db 3833 GTTAGGTAGTGGTTATGTTTGTAAATTTAGTAATTTGGAAAGTCAGGTGGAGAT 3892
Qy 781 TGCCTGAGCCAGGGGTTCAAGACACCTGGGCAATGAGAGATTTCCCATCTTT 840
Db 3893 TGTTTGAGGTAGGGGTTTAAGATTTAGTTGGTAATGAGAGATTTTATTTT 3952
Qy 841 CTT-----TACACACACACACACACACAAATATCTGATGCAACAGGTGAG 894
Db 3953 TTTTATATATATATATATATATATATATATATATATATATATATATATATATAT 4012
Qy 895 TCATTCACCAATTTTCAGATGATGATGATTAATTAATTTTCAGTTATCACCACAC 954
Db 4013 TTATATATATATATTTGAGTAGTATGATTTAATATATTTGAGTATATTAAT 4072
Qy 955 TGTAACTAACTGAAAAAGCTGTGTATGACTATTTGCCCAAAAGTCACAGTATCTGA 1014
Db 4073 TGTAACTAACTGAAAAAGCTGTGTATGATTTATTTAAAGTATAGTATTTGTA 4132
Qy 1015 ATACTCCTGGATTTGTAG--TAAATTCATATTAAGAAATGCTAGTTCACTGGTAT 1073
Db 4133 ATATTTTGTATTTGTATTTAATTTAATTAATTAAGAAATGTTAGTTTATGTTAT 4192
Qy 1074 TTTGTCCGACGCTGTGTGAGCGGAGGTTAGAACGCCCTCCAGCCAGAGGTTGAC 1133
Db 4193 TTTGTTTGAAGGTTTGTGAGCGGTAGTAAACGTTCTTTAAGTTAGAGGTTGAT 4252
Qy 1134 CTAGCACTGCAAGGTTCACTCGGCGCAATCAATATATTTCCGAGGCGGGGCTGCGC 1193
Db 4253 TTAGTATTTGAGGTTTATTTCCGGTTAATTAATTAATTTTGAAGCGGGG--TTCGGT 4311
Qy 1194 TTCCCGGACCGAGCTGCTCAGGGGAGAGAGACACACTTAAGTTTGGGCGCGGCT 1253
Db 4312 TTTTGGATTTAGTTGTTTATTTAGGAGAGAGATTAATTAAGATTTGGGCTGGCGT 4371
Qy 1254 GGTAGCTCATGCCCTGTATCCAGCACTTCGAGGCTGAGGCTGAGATCACTGTAG 1313
Db 4372 GGTAGTATATGTTTATTTAGTATTTTGGAGAGTTGAGGCTGAGATTTTGTAG 4431
Qy 1314 CAGGATTTGAGACCACTTAGCCAACTTGCGGAGACCTGTCTCTTAAAAAATTTT 1373
Db 4432 TAGGAGTTTGAATTTAGTTAATTTTGGCGATTTTGTTTTAAAAAATTTT 4491
Qy 1374 TTTAATTAGCAATGTGTGAGGCTGTAGTCCAGCACTTCGAGGCTGAGGCTGAGG 1433
Db 4492 TTTAATTAGTTAGTTGTGTGAGGCTTTAGTTTATTTAGTTTGGAGGTTAGG 4551
Qy 1434 AGGATCGTGGGCTCAGAGTTCCAGACTCAGTGAACCATGATGGCGCACTGCC 1493
Db 4552 AGGATCGTGGGTTTGAAGATTTTGAATTTGATGAGTATGATGGCGGATTTGAT 4611
Qy 1494 AGGCGGTGAGACTCACTCAAAATTAAGGGGAGGGGTTGGGGTAAATTAAGTTG 1553
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Db 4612 AGCGGTGAGATTTAGTTTAAAAATTAAGGGGAGGGGTTGGGGTAAATTAAGTTG 4671
Qy 1554 TGAATCAATAGACTTCTCTGGAGCAACAATCAAAAGGGGTGCGCGGGTCTTCAA 1613
Db 4672 TGAATTAATTAAGATTTTGTGGATGAAATTAATTAAGGGGTGCGGTCTTCAA 4731
Qy 1614 AGAGCTACTAGCTCAGCCCAAGCCCGCTCGGCCCCCAGAGGAGCGGCGCAGAGCTCC 1673
Db 4732 AGATTAATTTAGTTTAAAGTTTGTGTTTGGTTTGA -GTAAGCGGTGTAAGTTT 4790
Qy 1674 ACCCGCAGGCGCGCGGAAATCTCGCCCCCGCGCGAGGCGCGCGC -CGCGCGCC 1732
Db 4791 ATTCTGAGGCGTTCCGGAATTTCTTTTTCGTGCTAGAGGGGCGCGGTCTGCTT 4850
Qy 1733 CCGCCCGTGGAGCGGGGTTCCGT -GACGTTCCCGGCGCAGGCAATCAATCTATCAG 1791
Db 4851 TCGTTTCTGTAAGCGGGGTTCTGAGCGTTTTCGCGGTTAGTATTAATTTATAG 4910
Qy 1792 GGAACGCGGTGCGCGGTGCGGTGCGGTG -CGCTTGGCCGCTCAGCCGTGCGG 1849
Db 4911 GGAACGCGGTGCGGTGCGGTGCGGTGCGGTGCGGTGCGGTGCGGTGCGGTGCGG 4970
Qy 1850 CTGGGTGAGCGGACCGGAGCGGCGGAGCGGCAAGCTGTCTTAAAGTCTGCGGTG 1909
Db 4971 TTGGGTGAGCGGTACGGAAGCGGCGGAGCGGTG ---GCGGTTTTAAAGTCTGCGGTG 5027
Qy 1910 GCGTCCGAGCTTTGAGCGGCACTAGGGAGGATGCGGAGCTTCCGATTAAGCTAT 1969
Db 5028 GGTTTTCCGAGTTTGTGCGGTATGAGGAGATGCGGAGTTTCCGATTAAGTTTAT 5087
Qy 1970 CGAGTGAATCGCCCAAGAGCGGCGCGCTCTTGCAGAAATGACGAGACATCCCC 2029
Db 5088 CGAGTGAATCGCTTAAGAGCGGCGCGCTTTTGTAAAGAAATGACGAGATATTTT 5147
Qy 2030 AAGACTCGCTCCGATGCGCATCATGCTGACAGTCCGGCGGCTGCGCGGG 2085
Db 5148 AAGATTCGTTTCCGATGCTTATTAATGCTGATGCTCGGCTTTTGTGCGGCGCG 5203
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RESULT 6
US-10-239-676-2/c
; Sequence 2, Application US/10239676
; Publication No. US20030082609A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PRIEBENBROCK, Christian
; TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
; FILE REFERENCE: 5013.1003
; CURRENT APPLICATION NUMBER: US/10/239,676
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: PCT/EP01/03968
; DE 10019058.8
; DE 10019173.8
; DE 10032529.7
; DE 10043826.1
; PRIOR FILING DATE: 2001-04-06
; 2000-04-06
; 2000-04-07
; 2000-06-30
; 2000-09-01
; NUMBER OF SEQ ID NOS: 228
; SEQ ID NO 2
; LENGTH: 10619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-239-676-2
Query Match 57.7%; Score 1203.2; DB 14; Length 10619;
Best Local Similarity 76.8%; Pred. No. 4,6e-284;
Matches 1600; Conservative 0; Mismatches 463; Indels 19; Gaps 10;
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QY 1 TTTAGGATGATATAGTGTCAACCGAGATGGATGATCATGCTTTGACTTGTC 60  
 DB TTTAAATATATATATATATCAACCCAAAAATAACTATATCATCTTTAATCTATCA 7445  
 QY 61 TTCTCTAAGTAAACCTTTATTTGTCATCATATTTTCCACTTATTTCTGTTAACTTCA 120  
 DB TTTCTTAAATATAAACCTTTATTTATTCATCATATTTTCCACTTATTTCTATTTA 7385  
 QY 121 AAATATCTTTTATTTTATTTTGAAGAGGGTCACTGTCAACCGAGCTAGATCCAG 180  
 DB AAATATCT--TTTATTTTATTTTAAACAAATATCATATCCAACTAAATATCCAA 7327  
 QY 181 TGGCACTATCATGCTCAACACAGCTCAACCTTGAGGGCTCAGGTATCTTCCACTTC 240  
 DB TTAACATATCATATCATACACACAGCTCAACCTTGAAACTAAATATATCTTCCACTTC 7267  
 QY 241 AGCTTCCGAGTATGATGGAGCTACAGGACCTGCAACCCCGAGCTATTTTGTAA 300  
 DB AACCTCCGAGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 7207  
 QY 301 GACAAAGTATTTGCACTGTTGTCCAGGCTGGTCTTGAATCTCTGGCTCAAGGATCCGAG 360  
 DB AACAAATTTTACATATATATCAAACTATCTTAACTCTTAACTCAAAAAATCCGAC 7147  
 QY 361 CACCTAGCTCCCAAGTGTAGATTTATAGGATGAGCACTGTGCCAGCTTACCTT 420  
 DB CACCTCAACTCCCAAAATCTAAATTTATTAACATTAACACTATATACCAACTCACTT 7087  
 QY 421 CAACGATCTAATGCTTACTAATCTTTAGATTTGGGCTTATGTCACACCTTCTTGC 480  
 DB CAACGATCTAATGCTTACTAATCTTTAGATTTGGGCTTATGTCACACCTTCTTGC 7027  
 QY 481 TTACTCAACATCTGCTCTTAAAGCACTAGCTTCTCTATGTTAACTTTTAT 540  
 DB TTACTCAACATCTTATCTTAAACCACTAATCTTCTCTATGTTAACTTTTAT 6967  
 QY 541 GAGTTTATGATCTGCTTATTTTCTTATCTCTATACCAAGATTGAATTTTCAAT 600  
 DB AATTTTATCTATCTTATTTTCTTATCTCTATACCAAAATTTAATTTTCAAT 6907  
 QY 601 AAAGCACTCATGTTATCAATCTTTAAATGAAAAAAATGCAATGATTAAGAAAG 660  
 DB AAAGCACTCATGTTATCAATCTTTAAAT--AAAAAAATTAATTAATTAATTAATTA 6848  
 QY 661 AAACCAATTTTAACTATTTTGAAGTATGTTCTATATTAACAACAAGATCTAG 720  
 DB AAACCAATTTTAACTATTTTGAAGTATTTAAATATTAATTTAAACAACAAGATCTAA 6788  
 QY 721 GCCAGGTGATGCTCATGCTGTTATCCAGCAATTTGGGAAGTGGAGGTGGAGAT 780  
 DB ACCAAATATCAATATCTATCTATATCCCAAAATTTAAAAAATCGAAATTAATAAAT 6728  
 QY 781 TGGTTAGGCGAAGGGTCAAGACAGGCTGGGCAATGAGAGATTTCCCACTCTTT 840  
 DB TACTTAAACCAAAAAATTCAAAACCACTTAACATTAATAAATTTCCCACTCTCTT 6668  
 QY 841 CTTT-----ACACACACACACACACACACAAATATCTGATAGCAAGGTGAC 894  
 DB CTTTACACACACACACACACACACACACACAAATATCTAATTAACAACAATATCTA 6608  
 QY 895 TCAATACCAATTTGAGTATGATGAGTAAATATTTGAGTTATCACCAAC 954  
 DB TCAATACCAATTTGAGTATGATGAGTAAATATTTGAGTTATCACCAAC 6548  
 QY 955 TGTAACTATCAAGAAAAGCTGTGTATGATGATTTGGCCCAAGAGTCAAGGTATGCTA 1014  
 DB TATTAATTAATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 6488  
 QY 1015 ATACTCTGATTTTGTAGT-AAATCATATATTAAGAAATGCTAGTTTCAAGTTGTAT 1073  
 DB ATACTCTATATTTATTAATCAATTAATTAATTAATTAATTAATTAATTAATTAATTA 6428

QY 1074 TTTGTCGCGAGCGTCTGTGAGACGGAGGTTAGAACGCCCTGTCACAGAGAGGTGAC 1133  
 DB TTTATCTCCGACGATCTATTAATTAAGCAAAATTAAGCCGTCACAAACAAAAATTAAC 6368  
 QY 1134 CTAGCACTGACAGGTCACCTTGGGCAATCAATATTTTCCAGAGCGGGGCTGCGC 1193  
 DB CTAGCACTGACAGGTCACCTTGGGCAATCAATCAATCAATTTTCCGAAACGAAACCCG -AC 6309  
 QY 1194 TTCCGAGCCGAGCTGCTCAGGGAGAGAGACACTTAAGATTGGGCGCGCGT 1253  
 DB TTCCGAGCCGAGCTGCTCAGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 6249  
 QY 1254 GGTAGCTATGCGCTGATTCGAGCACTTGGGAGGCTGAGGCGTGAGATGATCTGAG 1313  
 DB AATTAACATTAATCCCTTAATCCCAACATTCGAAAACTTAATTAATTAATTAATTA 6189  
 QY 1314 CAGAGTTTGAAGACGATCTAGCCCAATCTGGGAGAGACCTGCTCCCTAAAAATTTT 1373  
 DB CAAAAATTTAAACCAATCTAATCAATCTTAACGAAACCTTATCTTAAAAATTTT 6129  
 QY 1374 TTTAATTAAGCCAGTTGTGAGAGCGCTGTAGTCCAGCTACTGAGAGGCTGAGGTGG 1433  
 DB TTTAATTAAGCCAGTTGTGAGAGCGCTGTAGTCCAGCTACTGAGAGGCTGAGGTGG 6069  
 QY 1434 AGATGCTGAGGCTCAAGAGTTCCAGATCTGAGTGAACCATGATGAGCGGCACTGAC 1493  
 DB AAAAACTGCTAACTCAAAAAATTCCAACTCAATTAACCATTAATTAACGACTTAC 6009  
 QY 1494 AGCGGAGTGAAGTCACTGCTCAAAATTAAGAGGAGGAGGAGGAGGAGGAGGAGT 1553  
 DB AAGCGATTAATTAATCTAATCTCAAAATTAAGAGGAGGAGGAGGAGGAGGAGGAGT 5949  
 QY 1554 TGAATTAAGTAAAGCTTCTGAGAGAGAACTCAAAAGGAGTGGCGCGGCTCTTCAA 1613  
 DB TAAATTAAGTAAAGCTTCTTAAACAAATCAAAATTAAGGCGGAGTCTTCAA 5889  
 QY 1614 AAGGCTATGAGTCAAGCCCAAGACCCGCTCGGCCCCAGGAGCAAGCGGCGAGAGCTC 1673  
 DB AAGGCTATGAGTCAAGCCCAAGACCCGCTCGGCCCCAGGAGCAAGCGGCGAGAGCTC 5830  
 QY 5888 AAACCTATCTAATCTCAACCAACCCGCTCGACCCCA-AAACAAGACGCAAACTCC 5830  
 DB ACCGCGAGGCGCGCGGAGAACTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1732  
 QY 5829 ACCGCGAGGCGCGCGGAGAACTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 5770  
 DB ACCGCGAGGCGCGCGGAGAACTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 5770  
 QY 1733 CGGCGCGTGAAGCGGCGGTTCCGT-GGCGTTCCGCGGCGAGGATCAAGATCTATCAG 1791  
 DB CGGCGCGTGAAGCGGCGGTTCCGT--GGCGTTCCGCGGCGAGGATCAAGATCTATCAG 5710  
 QY 1792 GGAAGCGGCGTGGCGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1849  
 DB GGAAGCGGCGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 5650  
 QY 1850 CTGGGTGAGCGCACGCGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1909  
 DB CTGGGTGAGCGCACGCGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 5593  
 QY 5592 AACTTCCGAACTTTAAAGCACTTAATAAAAAATTAACAAATCTTGAATTAACCTAT 5533  
 DB AACTTCCGAACTTTAAAGCACTTAATAAAAAATTAACAAATCTTGAATTAACCTAT 5533  
 QY 1970 CGAGTGAATGAGCCCAAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2029  
 DB CGAGTGAATGAGCCCAAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 5473  
 QY 5532 CGAATGGAATTAAGCAAAACGAGCGGCTTTCAAAAAATTAACAAACATCCCG 5473  
 DB AAGGACTGCTCGGATGAGGCGATCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2071  
 QY 2030 AAGGACTGCTCGGATGAGGCGATCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2071  
 DB AAAAACTGCTCGGATTAACATCAATTAATTAACAAATTAACGAGAC 5431

```

GENERAL INFORMATION:
APPLICANT: OLEK, Alexander
APPLICANT: PIEPENBROCK, Christian
APPLICANT: BERLIN, Kurt
TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining the Cytosine Methylation of Specific DNA Sequences
FILE REFERENCE: 5013.1014
CURRENT APPLICATION NUMBER: US/10/311,455
CURRENT FILING DATE: 2002-12-16
PRIORITY APPLICATION NUMBER: PCT/EP01/07537
PRIORITY FILING DATE: 2001-07-02
PRIORITY APPLICATION NUMBER: DE 10032529.7
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: DE 10043826.1
PRIORITY FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 2424
SEQ ID NO 44
LENGTH: 10619
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
IS-10-311-455-44

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	Query Match	57.7%	Score 1203.2;	DB 15;	Length 10619;	
	Best Local Similarity	76.8%;	Prod. No. 4.6e-284;			
	Matches 1600;	Conservative	0;	Mismatches 463;	Indels 19;	Gaps 10;
Qy	1	TTTAGGGATGATATAGTGTGCACCCCAAGATGGCATGATGCGCTTTTGACTGGCCA	60			
Dd	7504	TTTTAAAAATATATATATTATTCACCCCAAAAATACTAATATCATCTTTTAACCTTAACA	7445			
Qy	61	TTCCTAAGTAAACCTTTATTTGTCATCATATTTTCCATTATCTGTTTACCTTCA	120			
Dd	7444	TTCTCTAAATAAACCTTTATTTATTCATCATATTTTCCATTATCTAATTACCTTCA	7385			
Qy	121	AAATATCTTTTTTTTTTTTTTTGAGAAGGCTCACACTGACCCAGGCTAGAGTCCAG	180			
Dd	7384	AAATATC--TTTTTTTTTTTTTTTTTAAACMAATCATCATACCCCAAATCAAATCCA	7327			
Qy	181	TGGCACTATCATGGCTCAACAAGCTCAACCTTCAGGSGCTCAGGTATCTGCCAAGTC	240			
Dd	7326	TAACTATATCTAATCTCACCAACCTTACACCTTTCAAAAGTCAATATATCTCCCACTC	7267			
Qy	241	AGCTCCGATAGATGGGACTAAGGACCTGCACCAACCCTCAAGTATTTTTTGTA	300			
Dd	7266	AACCTCCGATATATATAAACCTAACAACCTACACACCCCACTAATTTTTATATA	7207			
Qy	301	GACAAAGTTTGGCAATGTTGTCAGGCTGGTCTGAACCTCTGGGCTCAAGGATCCGGC	360			
Dd	7206	AACAAAATTTTACCAATATATTCCAAACCTAATCTTAACTCTAAACCTCAAAAAATCCGAC	7147			
Qy	361	CACCTCAGCCTCCCAAAAGTGTAGATTTATAGCATAGACCATGTGGCCAGCTACCTT	420			
Dd	7146	CACCTCAACCTCCCAAAATACTAAATTTATAAACATAAACCATATACCAACTACCTT	7087			
Qy	421	CAAGTATCTAATCTGTTACTTAACCTTTTAGAGATTCCGGCTATGTCTCAACCTTCTGC	480			
Dd	7086	CACGTATCTAATCTAATTAATTAACCTTTTAAAAATGCACTATATCTCAACACCTTCTAC	7027			
Qy	481	TTACTCAACATCTGTGCTCTTAAAGCACTAGCTTCTCTCTATAGTATACACTTTTAT	540			
Dd	7026	TTACTCAACATCTTATCTCTTAAACCATTAACCTTCTCTATATAATTAACATTTTAT	6967			
Qy	541	GAGTTTATTCATCTGCTTATTTTTCTTATCTCTATACGAATGGAATTTTCAAT	600			
Dd	6966	AAATTTATTCATCTACTTATTTTCTTATCTCTATCCAAAATTAATTTTCAAAAT	6907			
Qy	601	AAAGCAACATCTATGTTCAATCTTTGAAATGGAATAAAAATATCATGATTTGGAAG	660			
Dd	6906	AAAGCAACCTATATTAACATCTTTAAAT--AAAAAAAAAAATCATTAATTTAAAAAA	6848			
Qy	661	AAACCAATTTTAAATACTATATTTTGAAGTATGTTCTATATTTAAACACAAAGATCAG	720			

Db	6847	AAACCAATTTTAACTATATATTTTAAATATATATTTATATTTAAACAACAAATCTTAA	6788
Qy	721	GCCAGTGCAGTGCCTCATGCTGATTAATCCAGCAATTTGGGAAAGTCAGGTGGGAGAT	780
Db	6787	ACCAATACATTACTCATTAATATATCCAACAATTTAAATATCGAAATTAATTAAT	6728
Qy	781	TGCTTAGGACCAAGGGGTTCAAGACCAAGCTGGGCAACATGAGAGATTTCCCATCTCTT	840
Db	6727	TACTTAAACCAAAATTTCAAAACCAACTAAACATAAAATAATTTCCCATCTCTT	6668
Qy	841	CTTT-----ACACACACACACACACACACACAAAATATCTGATAGCAACAGTGCAG	894
Db	6667	CTTTACACACACACACACACACACACACACACACAAAATATCTAATACACAAATACTA	6608
Qy	895	TCATTACCACAATTTCGAGTGTGATGCTTAATATATTTGAGTATACCAACACAC	954
Db	6607	TCATTACCACAATTTGCAATATATATTAATTAATTAATTAATTTGCAATATATACCAACAC	6548
Qy	955	TGTAACTACATGATAAAAGTCTGTGATGATCTATTGCTCCCAAAAGTCACAGTACTGCTA	1014
Db	6547	TATAAATATACATAAAAGCTCTAATATTAATTAATTAATTAATTAATTAATTAATTAAT	6488
Qy	1015	ATACTCTGTGATTTTGTAGT-AAATTCATTAATAAGAAATGCTAGGTTTCAAGTTGGTAT	1073
Db	6487	ATACTCTTAATATTTATATATCAAAATCTCAATTAATAAAATACTAATAATTTCAATTAATAT	6428
Qy	1074	TTTGCCCCGAGGCTGTGGAAGGAGGTTGAAGGCCGCTCAAGCCGAGGAGGAGGTTGAC	1133
Db	6427	TTTATCCCCGAGGATCTATTAACGCAAAATTAACGCCCCGCTCAACCAAAATAATTAAC	6368
Qy	1134	CTAGCACTGACAGGCTCACTCTGGGCAATCACTATTTCCGAGGCGGGGCTGCGC	1193
Db	6367	CTAACACTACAAATTCACCTCTGAAACCAATCACTATTTCCGAAACGAAACACCG-AC	6309
Qy	1194	TTCCCGGACCAAGCTGCCCCCTAAGGGGAGAGAGACACTTAAGAATTTGGGGCCGGCGT	1253
Db	6308	TTCCGGAACCAACTGATCCCTCAAAAAAAAACACTTAATAATTTTAAACCGACGT	6249
Qy	1254	GGTAGCTATGCCCTGATGCCACACTTGGGAGGCTGAGGCGTGAAGATCACTGTGAG	1313
Db	6248	AATTAACATATCCCTTAATTCACCACTTGCAAAAACCTAAACGTAAATAATCACTTAATA	6189
Qy	1314	CAGAGTTTGAAGCACAGTCTAGCCAACTTGGCGAGACCTGTCCCTTAATAAAATTTT	1373
Db	6188	CAAAATTTTAAACCAATCTTAACCACTTAACGAACCAATCTCCCTAATAAAATTTT	6129
Qy	1374	TTTAATTAGCAATTTGGTGGAGCGCTGTAGTCCAGCTACTCGGGAAGCTGAGTGGG	1433
Db	6128	TTTAATTAAACCAATTTAATAAAGCCTATATCTCAACTCTGAAAAACTTAATAATAA	6069
Qy	1434	AGGATCGTGGGCTTCAGGAGTTCCAGACTGAGTGAAGCATGATGGCGGCACTGCATCC	1493
Db	6068	AAAATCGTAAATCTCAAAATTTCCAAACTTAATAAACAATTAATAAGACACTACCTCC	6009
Qy	1494	AGCGGCGTGAAGTCAAGTCTCAAAATAAAGGGGAGGGGTTGGGGTAAATTAAGTTG	1553
Db	6008	AAACGCGATTAATCTCAATCTCAAAATAAATAAAATTAATAATTAATAATTAATTA	5949
Qy	1554	TGAATCAAGTGAAGCTTCTCTGGGACAGAACTAAAGGGGTGGCGCCGGGTCTTCAA	1613
Db	5948	TAAATCAAAATAAACTTCTTAATAAACAACAATCAATAAAATAATTAACCGCAATCTCAA	5889
Qy	1614	AGAGCTACTAGCTCAGCCCAAGCCCGCTGTGGCCCCCAGGGCAGCGCGGACAGACTCC	1673
Db	5888	AAAATCTAATACTCAACCCCAAAACCCGCTGACCCCA-AAACAACAACGCAAAATCTCC	5830
Qy	1674	ACCGGCAAGGCGCCGGGAAATCTCGGCCCCCGGCGGGAGGGCGCGCG-CCGCGGGCC	1732
Db	5829	ACCGAACAAGCCCGAAATCTCGGCCCCCGACGCACAAAAACGCGCGCGCAAC	5770
Qy	1733	CGGCGCGTGAAGCGGGTTCCGT-GGCGTTCCCGCGGCAAGCATAGCAATTTATCAG	1791

Db 5769 CCGCCCCGTAAACGCAAAATTCCTGTAACGTTCCCGGACCAACATCAATCTATCA 5710  
Qy 1792 GGAACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1849  
Db 5709 AAAACGACGATACCGATACGATACGATACGATACGATACGATACGATACGATACGATAC 5650  
Qy 1850 CTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1909  
Db 5649 CTAATAAAGCAGCGGAAACGAGAAACGAGAAACGAGAAACGAGAAACGAGAAACGAGAAAC 5593  
Qy 1910 GCGTTCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1969  
Db 5592 AACTTCGAAAGCTTAACGAGCACTAAACAAATTAACGAAATCTTAACGAAATCTTAAC 5533  
Qy 1970 CGAGTCGAGTACGCAAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2029  
Db 5532 CGAATGAGTACGCGCAAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAACGAAAC 5473  
Qy 2030 AAGGACTCGCTCCGATGCGCATCATGTCGAGGTCGCGGCGC 2071  
Db 5472 AAAAAGCTCGCTCCGATGCGCATCATGTCGAGGTCGCGGCGC 5431

RESULT 8  
US-10-240-453-2/c

/ Sequence 2, Application US/10240453  
/ Publication No. US20030148326A1  
/ GENERAL INFORMATION:  
/ APPLICANT: OLEK, Alexander  
/ APPLICANT: PIEPENBROCK, Christian  
/ APPLICANT: BERLIN, Kurt  
/ TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA  
/ TITLE OF INVENTION: by Means of Assessing the Methylation Status of Genes Associated  
/ TITLE OF INVENTION: with DNA Transcription  
/ FILE REFERENCE: 5013.1009  
/ CURRENT APPLICATION NUMBER: US/10/240.453  
/ CURRENT FILING DATE: 2002-10-02  
/ PRIOR APPLICATION NUMBER: PCT/EP01/03973  
/ PRIOR FILING DATE: 2001-04-06  
/ PRIOR APPLICATION NUMBER: DE 10019058.8  
/ PRIOR FILING DATE: 2000-04-06  
/ PRIOR APPLICATION NUMBER: DE 10019173.8  
/ PRIOR FILING DATE: 2000-04-07  
/ PRIOR APPLICATION NUMBER: DE 10032529.7  
/ PRIOR FILING DATE: 2000-06-30  
/ PRIOR APPLICATION NUMBER: DE 10043826.1  
/ PRIOR FILING DATE: 2000-09-01  
/ NUMBER OF SEQ ID NOS: 350  
/ SEQ ID NO 2  
/ LENGTH: 10619  
/ TYPE: DNA  
/ ORGANISM: Artificial Sequence  
/ FEATURE:  
/ OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)  
US-10-240-453-2

Query Match 57.7%; Score 1203.2; DB 15; Length 10619;  
Best Local Similarity 76.8%; Pred. No. 4.6e-284;  
Matches 1600; Conservative 0; Mismatches 463; Indels 19; Gaps 10;

Qy 1 TTTAGGAGTATATAGTGTCAACCCAGAGATGCGATGATGCTTTTGTGATGCTGCTCA 60  
Db 7504 TTTAAAAATATATATATATCAACCCAAAAATATATATATATATATATATATATATCA 7445  
Qy 61 TTCTCTAAGTAAATCTTTATTTTGTCCATCATATTTTCACTATTTCTGTTTACCTTCA 120  
Db 7444 TTCTCTAATCA 7385  
Qy 121 AAATATCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 180  
Db 7384 AAATATCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 7327

Qy 181 TGGCATATCATGCTCTACACACAGCTTCACTTACAGGCGTCAAGTATCTTCCACTTC 240  
Db 7326 TAAACATCAT 7267  
Qy 241 AGCCCTCCGAGTAT 300  
Db 7266 AACTCTCCGAGTAT 7207  
Qy 301 GACAAAGTTTTCGAT 360  
Db 7206 AACAAT 7147  
Qy 361 CACTCTAGCTCCCAAGTCTAGAT 420  
Db 7146 CACTCTAGCTCCCAAGTCTAGAT 7087  
Qy 421 CAACTAT 480  
Db 7086 CAACTAT 7027  
Qy 481 TTAATCAATATCTTGTCTTAAAGCACTAGCTTCTTCTATATATATATATATATATATATATAT 540  
Db 7026 TTAATCAATATCTTGTCTTAAAGCACTAGCTTCTTCTATATATATATATATATATATATATAT 6967  
Qy 541 GAGTTTAT 600  
Db 6966 AAT 6907  
Qy 601 AAGCACTAT 660  
Db 6906 AAGCACTAT 6848  
Qy 661 AAACAAATTTAT 720  
Db 6847 AAACAAATTTAT 6788  
Qy 721 GCGAGTGCATGCTCTATGCTGTAATCCAGCAATTTGGGAAGTCGAGGTCGAGAT 780  
Db 6787 ACCAAATTCAT 6728  
Qy 781 TGCTTGAAGGCGAGGGGTTCAAGACAGCTGGGCAATGAGAGATTTCCCATCTCTTT 840  
Db 6727 TACTTAAACCAAAATTTCAAAACCACTTAAACCAATTTAAATTTCCCATCTCTTT 6668  
Qy 841 CTTT-----AC 894  
Db 6667 CTTTAC 6608  
Qy 895 TCATTTACCAATTTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 954  
Db 6607 TCATTTACCAATTTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 6548  
Qy 955 TGTAAATCAATATGAAAGAGTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1014  
Db 6547 TATTAAT 6488  
Qy 1015 ATATCTCTGTAATTTGTAGT-AAATTCATATATATATATATATATATATATATATATATATAT 1073  
Db 6487 ATATCTCTGTAATTTGTAGT-AAATTCATATATATATATATATATATATATATATATATATATAT 6428  
Qy 1074 TTTTGTCCGAGGCTGT 1133  
Db 6427 TTTTGTCCGAGGCTGT 6368  
Qy 1134 CTAGACATGAGGATCTAGCTGAGGCAATCAATATATTTCCGAGGCGGGGCTGCGC 1193  
Db 6367 CTAGACATGAGGATCTAGCTGAGGCAATCAATATATTTCCGAGGCAATCAATCAATCAATCAAT 6309  
Qy 1194 TTTCCGAGCCAGCTGCTCTAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1253  
Db 6308 TTTCCGAGCCAGAGTACCTCAAAAAAAG 6249  
Qy 1254 GGATGCTATGCTCCCTGATCCAGCACTTCCGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGG 1313



Db 6248 AATAACATATACCCCTATCCCAACACTTGCAGAAAACCTAAACCTAAACCTATATAA 6189  
Qy 1314 CAGAGTTTGAAGACCACTTACCACTTGGCGAGACCCCTGTCCTTAAAAAATTTTTT 1373  
Db 6188 CAAAAATTTAAACCAATCTTACCACTTAAAGAAACCTTATCCCTTAAAAAATTTTTT 6129  
Qy 1374 TTTAATTAAGCAATGTTGTGTAGGCGCTGTAGTCCAGCTACTCGGAGGCTGAGTGGG 1433  
Db 6128 TTTAATTAACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 6069  
Qy 1434 AGATTCGCTGGCTCAGAGTTCAGACTGAGTGAAGCAATGATGCGGCACTGCACTCC 1493  
Db 6068 AAAATTCGCTAACTCAAAAATTCCAAACTCAAACTCAAACTCAAACTCAAACTCC 6009  
Qy 1494 AGCGCGGTGAGACTCACTCTCAAAAATTAAGAGGGGAGGGGTTGGGTTAAATTAAGTTG 1553  
Db 6008 AACGCCATTAACCACTCAATCTCAAAAATTAAGAGGGGAGGGGTTAAATTAATTAATTA 5949  
Qy 1554 TGAATCAAGTAAAGACTTCTCTGGGAGAGAACTAAAGGGGTGGCGCGGCTCTTCCAA 1613  
Db 5948 TAAATCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5889  
Qy 1614 AGAGCTCTAGCTCAGACCCCAAGCCCGCTGCGCCCAAGGCGCGCGCGAGAGCTCC 1673  
Db 5888 AAAATCACTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCC 5830  
Qy 1674 ACCCGGAGGCGCGCGGAGAACTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1732  
Db 5829 ACCCGAGAAACGCGCGGAGAACTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAC 5770  
Qy 1733 CCGCGCGGTGAGACGCGGAGTTCCGT- GCGCTTCCCGCGCGCGAGGAGTCAATCTATCAG 1791  
Db 5769 CCGCGCGGTAAAGCGGAGTTCCGTAAAGTTCCCGCGCGCGAGAGCATCAATCTATCAA 5710  
Qy 1792 GGAACGCGGTGGCGGCTGGCGGCTGTTCCGT- GCGCTTGGCGCGCTCAGCGCTGGCGG 1849  
Db 5709 AAAACGACGATACCGATACGACCTATTCGATTAACGATCCGCTCAAAAACCTACGA 5650  
Qy 1850 CTGGGTGAGGCGACGCGAGGCGCGGCAAGCGTGTGTTCTAGGTGGTGGCGCTG 1909  
Db 5649 CTAATTAATTAACGACGCGGAGAAACGACGAAACGACGAA--CGTATTTCTAATATGTAACGTG 5593  
Qy 1910 GCGCTTCGAGCTTTGGCGGAGCTAGGAGGAGATGCGGAGTCTTCGATTAAGCTAT 1969  
Db 5592 AACTTCGAAACCTTTAAGCACTAATAAAAAAATAAGAAATCTTGATTAATCTAT 5533  
Qy 1970 CGAGTCGATACGCGCAAGCGGCGCGCTCTTCAAGAAATGACGAGAGATCCC 2029  
Db 5532 CGAATCGAATACGCGCAAAAACGAAACGCGCTCTTAAGAAAAATACAGAAACATCCCC 5473  
Qy 2030 AAGGACTCGCTCCGAGTGCATCATGTGCAAGTGGGGCC 2071  
Db 5472 AAAAATCGCTCCGATTAACCATATATATCAAAATACGAAAC 5431

## RESULT 9

US-10-240-589C-2/c  
; Sequence 2, Application US/10240589C  
; Publication No. US20040076956A1  
; GENERAL INFORMATION:  
; APPLICANT: OLEK, Alexander  
; APPLICANT: PIEPENBROCK, Christian  
; APPLICANT: BERLIN, Kurt  
; TITLE OF INVENTION: Diagnosis of Diseases Associated with  
; FILE REFERENCE: 5013.1008  
; CURRENT APPLICATION NUMBER: US/10/240.589C  
; PRIOR FILING DATE: 2003-09-02  
; PRIOR APPLICATION NUMBER: PCT/EP01/03972  
; PRIOR FILING DATE: 2001-04-06  
; PRIOR APPLICATION NUMBER: DE 10019058.8  
; PRIOR FILING DATE: 2000-04-06

; PRIOR APPLICATION NUMBER: DE 10019173.8  
; PRIOR FILING DATE: 2000-04-07  
; PRIOR APPLICATION NUMBER: DE 10032529.7  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: DE 10043826.1  
; PRIOR FILING DATE: 2000-09-01  
; NUMBER OF SEQ ID NOS: 148  
; SEQ ID NO 2  
; LENGTH: 10619  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: chemically created genomic DNA (Homo sapiens)  
US-10-240-589C-2  
Query Match 57.7%; Score 1203.2; DB 18; Length 10619;  
Best Local Similarity 76.8%; Pred. No. 46-284; Indels 19; Gaps 10;  
Matches 1600; Conservative 0; Mismatches 463;  
Qy 1 TTTAGGATGATATAGTGTCAACCCAGAGATGCAATGATGCTTTGACTTGATCA 60  
Db 7504 TTTAAATCA 7445  
Qy 61 TTCTTAAGTAAACCTTTATTTTGTTCATCATATTTTCCACTTATTTGTTAATCTTCA 120  
Db 7444 TTCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 7385  
Qy 121 AAATATCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 180  
Db 7384 AAATATC--TTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 7327  
Qy 181 TGCACTATCATGCTCAGCAGCAGCTTCACTTCAAGGCTCAGGCTCAGGCTCAGGCTC 240  
Db 7326 TAACTATCATCA 7267  
Qy 241 AGCTTCCGAGTATGATGGAATAGAGCACTGCGCAACCCAGCTTATTTTGTAGA 300  
Db 7266 AACCTCCGAGTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 7207  
Qy 301 GAAAGTTTGTGCAATGTTGTGCGAGGCTGCTTGAATCTCGGCTCAAGGATCCGCG 360  
Db 7206 AACAAATTTTACAT 7147  
Qy 361 CACTGAGCTCCCAAGTCTAGATTAATGAGTATGAGCACTGAGCTTGTGCCAGCTTCT 420  
Db 7146 CACTGAGCTCCCAAGTCTAGATTAATGAGTATGAGCACTGAGCTTGTGCCAGCTTCT 7087  
Qy 421 CAAGTATCTAATGTTATCTAACTTTTGAATGAGTGGCTATGCTCAACCTTCTGC 480  
Db 7086 CAAGTATCTAATGTTATCTAATCTTTTGAATGAGTGGCTATGCTCAACCTTCTTAC 7027  
Qy 481 TTAATCAATCTTGTCTTAAAGCACTAGTCTTCTTAAAGTATTAATTTTAT 540  
Db 7026 TTAATCAATCTTGTCTTAAAGCACTAGTCTTCTTAAAGTATTAATTTTAT 6967  
Qy 541 GAGTTTATCTAATCTGCTTATTTTCTTAACTTCTTAAAGTATTAATTTTAT 600  
Db 6966 AATTTTATCTAATCTTATTTTCTTAACTTCTTAAAGTATTAATTTTAT 6907  
Qy 601 AAAGCACTCATGTTTAACTTTTGAATGAGTATGAGTATTAATTTTAT 660  
Db 6906 AAAGCACTCATGTTTAACTTTTGAATGAGTATGAGTATTAATTTTAT 6848  
Qy 661 AAACCAATTTTAACTTATTTTGAATGAGTATGAGTATTAATTTTAT 720  
Db 6847 AAACCAATTTTAACTTATTTTGAATGAGTATGAGTATTAATTTTAT 6788  
Qy 721 GCGAGTGAAGTGGCTCATGCTGTAATCCAGCAATTTGGAGTGGAGTGGAGAT 780  
Db 6787 ACCTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 6728  
Qy 781 TGCTTGAAGCGAGGCTTCAAGCCAGCTGGGCAATGAGAGATTTCCCATCTCTT 840

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Db 6727 TACTAAACCAAAATTCAAAACCAACTAAACAAATTAATTTCCCATCTCTTT 6668
Qy 841 CTT-----ACACACACACACACACACACAAATATCTGATGACAGAGTGAC 894
Db 6667 CTTTACACACACACACACACACACACACACACACAAATATCTGATGACAGAGTGAC 6608
Qy 895 TCATTAACCAATTTGAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG 954
Db 6607 TCATTAACCAATTTGAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG 6548
Qy 955 TGTAACTAACATGAAAACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1014
Db 6547 TATTAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 6488
Qy 1015 ATACTCTGATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1073
Db 6487 ATACTCTGATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 6428
Qy 1074 TTTGTCGCGACGAGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1133
Db 6427 TTTATCCGACGATCTATAACGCAAAATTAACGCGCTCCAAACCAAAAATTAAC 6368
Qy 1134 CTAGCACTGAGAGGTCCACTCTGGGCGCAATCACTATATTCGAGGCGGGGCGCTG 1193
Db 6367 CTAAACACTACAAATCCACTCCAACTCAATCACTATATTCGAGAAACGAAACCG 6309
Qy 1194 TTTCCGACCGAGTGGCTCAGGAGGAGAGGAGACACTTAAGATTGGGCGCGAGCT 1253
Db 6308 TTTCCGACCGAGTGGCTCAGGAGGAGAGGAGACACTTAAGATTGGGCGCGAGCT 6249
Qy 1254 GGTAGCTGATGCGCTGTGATCCAGCACTTGAGGAGGCTGAGGCTGAGATCACT 1313
Db 6248 AATTAACGATACCCCTTAATCCCAACTGCAAAACGTAATAATTAATTAATTAAT 6189
Qy 1314 CAGAGTTTGAACGACGATCTAGCCAACTTGCGGAGACCTCTGCTTAATAATAATTT 1373
Db 6188 CAAAAATTTTAAACCAATCTTAACCACTTAACCAACCTTAATTTTAAAAATTT 6129
Qy 1374 TTTAATTTAGCAGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1433
Db 6128 TTTAATTTAGCAGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 6069
Qy 1434 AGGATGCTGGGCTCAGAGCTTCCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 1493
Db 6068 AATAGCTTAACCTCAAAATTTCCAACTCAATTAACCAATTAACCAATTAACCA 6009
Qy 1494 AGGCGGTGAGCTGAGCTCTCAAAATTAATAAGGAGGAGGAGGAGGAGGAGGAG 1553
Db 6008 AAGCGGATTAACCTCAATCTCAAAATTAATAAGGAGGAGGAGGAGGAGGAGG 5949
Qy 1554 TGAATCACTAAGACTTCTGTGGGACAGAACTCAAAAGGAGGAGGAGGAGGAGGAG 1613
Db 5948 TAAATCACTAATTAATCTTCTTAATAACCAATCAATCAATCAATCAATCAATCA 5889
Qy 1614 AGAGCTAAGCTCAGCCCAAGCCCGCTCGGCGCCCGCAGGAGGAGGAGGAGGAG 1673
Db 5888 AAAACCTAATCACTCAACCAACCGGCTCGACCCCA-AAACAAGAGCGCAAACT 5830
Qy 1674 ACCCGGAGGCGCGCGGAGAACTCCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1732
Db 5829 ACCCGGAGGAGGCGCGGAGAACTCCGCGCGCGCGCGCGCGCGCGCGCGCGCG 5770
Qy 1733 CCGCGCGCGGAGGAGGCGGAGTCCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1791
Db 5769 CCGCGCGCGTAAAGCGGAGTCCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 5710
Qy 1792 GGAACGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1849
Db 5709 AAAACGAGATTAACGAGTACGAGTATTCGATTAACGAGTATTCGATTAACGAG 5650
Qy 1850 CTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1909
Db 5649 CTAAATTAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 5593
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Qy 1910 GGGTCCGAGCTTTGGCGGACGCTAGGAGAGATGGCGAGTCTTGGATAGCTAT 1969
Db 5592 AACTCCGAACTTTAAGACAACTAAATAAATAAAGAAATCTTGGATTAAGCTAT 5533
Qy 1970 CGAGTCCAGTACGCCAAGAGCGGCGGCTCTTGGCAAAATGCAAGCAGATCC 2029
Db 5532 CGAATCGATTAAGCCAAATAACGAGCGCTCTTAATAAATAAATAAATAAATA 5473
Qy 2030 AAGAGCTGCTCCGAGTGGCGCATGAGGAGGAGGAGGAGGAGGAGGAGGAG 2071
Db 5472 AAAAACTGCTCCGATTAACATCAATTAATCAAAATACGAGC 5431

RESULT 10
US-10-027-632-154183
; Sequence 154183, Application US/10027632
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-07-12
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-04-20
; PRIOR FILING DATE: 2000-03-29
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 1999-11-23
; PRIOR FILING DATE: 1999-09-28
; PRIOR FILING DATE: 1999-08-09
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FASTA for Windows Version 4.0
; SEQ ID NO 154183
; LENGTH: 844
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-154183

Query Match 33.5%; Score 699.4; DB 13; Length 844;
Best Local Similarity 96.6%; Pred. No. 5.3e-161;
Matches 822; Conservative 1; Mismatches 12; Indels 16; Gaps 10;

Qy 1207 CTGCCCTCAGGGGAGAGGAGACACTTAAGATTGGGGCGGCGGTGAGCTCATG 1266
Db 1 CTGCCCTCAGGGGAGAGGAGACACTTAAGATTGGGGCGGCGGTGAGCTCATG 60
Qy 1267 CCTGATCCAGAGCTTCCGAGAGGCTGAGGCGTGAAGATCACTTGTAGCAGAGTTG 1326
Db 61 CCTGATCCAGAGCTTCCGAGAGGCTGAGGCGTGAAGATCACTTGTAGCAGAGTTG 120
Qy 1327 CCAAGTTCAGCAACTTGGCGAGACCTGTCCCTAATAAATAATTTTAAATAGCC 1386
Db 121 CCAAGTTCAGCAACTTGGCGAGACCTGTCCCTAATAAATAATTTTAAATAGCC 180
Qy 1387 TTGTGTGAGGCGCTGTGATCCCACTACTCGGAGGAGGAGGAGGAGGAGGAGGAG 1446
Db 181 TTGTGTGAGGCGCTGTGATCCCACTACTCGGAGGAGGAGGAGGAGGAGGAGGAG 240
Qy 1447 TCAGAGTTCAGAGCTGAGCAGTGAATGGCGGCACTGCACTCCAGCGCGTGAGAC 1506
Db 241 TCAGAGTTCAGAGCTGAGCAGTGAATGGCGGCACTGCACTCCAGCGCGTGAGAC 300
Qy 1507 TGAATCTCAAAATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1566
Db 1507 TGAATCTCAAAATTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1566
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Db 301 TCAGTCTCAAAAATTAAGGGGAGGGGTTGREGTAAATTAAGTGTAAATCAAGTAA 360  
Qy 1567 GACTTCTGGGAGACAGAAATCAAGGGGTTGGCGCGGCTCTTCAAGAGCTAAGTACT 1626  
Db 361 GACTTCTGGGAGACAGAAATCAAGGGGTTGGCGCGGCTCTTCAAGAGCTAAGTACT 420  
Qy 1627 CAGCCCAAGCCCGCTCGGCGCCCGCAGGCGAGCGG-CGCGAGAGCTTCAAGAGGAGCG 1685  
Db 421 CAGCCCAAGCCCGCTCGGCGCCCGCAGGCGAGCGGCTTCAAGAGGAGCGG 480  
Qy 1686 CCGGGGAACTCCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1742  
Db 481 CCGGGGAACTCCGCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 540  
Qy 1743 GAGCGGAGTTCCTT-GGCGTTCCCGCGGCGGAGCATAGCATATTAAGAGGAAAGCGCG 1801  
Db 541 GAGCGGAGTTCCTTGGGCGGCTTCCCGCGGCGGAGCATAGCATATTAAGAGGAAAGCGCG 600  
Qy 1802 TGGCGGAGTTCGCGGCTGTTCCGCTG--CGCTGAGCGGCTCAAGCGG-TGGCGGCTGGGTAG 1858  
Db 601 TGGCGGAGTTCGCGGCTGTTCCGCTGAGCGGCTGAGCGGCGGCTGAGCGGCTGGGTAG 660  
Qy 1859 CGCACGCGAGCGGCGGCGGCGGCGGAGCGTGTCTTCAAGTCTGTGCGGCTTCCG 1918  
Db 661 CGCACGCGAGCGGCGGCGGCGGCGGAGCGTGTCTTCAAGTCTGTGCGGCTTCCG 716  
Qy 1919 AGCTTTGGCGGAGCTAGGAGGAGATGGCGGAGTCTTCAAGTCTTATCAGTCTGAG 1978  
Db 717 AGCTTTGGCGGAGCTAGGAGGAGATGGCGGAGTCTTCAAGTCTTATCAGTCTGAG 775  
Qy 1979 TAGCGCAAGAGCGGCGGCGGCTTTCGAGAAATGCGAGGAGCATCCCAAGAGTCTG 2038  
Db 776 TAGCGCAAGAGCGGCGGCGGCTTTCGAGAAATGCGAGGAGCATCCCAAGAGTCTG 832  
Qy 2039 CTCGGATGCG 2049  
Db 833 CTCGGATGCG 843

## RESULT 11

US-10-027-632-154183  
; Sequence 154183, Application US/10027632  
; Publication No. US20030204075A9  
; GENERAL INFORMATION:  
; APPLICANT: Wang, David G.  
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide  
; FILE REFERENCE: 108827.129  
; CURRENT APPLICATION NUMBER: US/10/027,632  
; PRIOR APPLICATION NUMBER: 2002-04-30  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/218,006  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 60/198,676  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: US 60/193,483  
; PRIOR FILING DATE: 2000-03-29  
; PRIOR APPLICATION NUMBER: US 60/185,218  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/167,363  
; PRIOR FILING DATE: 1999-11-23  
; PRIOR APPLICATION NUMBER: US 60/156,358  
; PRIOR FILING DATE: 1999-09-28  
; PRIOR APPLICATION NUMBER: US 60/146,002  
; PRIOR FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 325720  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 154183  
; LENGTH: 844  
; TYPE: DNA  
; ORGANISM: Human  
US-10-027-632-154183

Query Match 33.5%; Score 699.4; DB 17; Length 844;

Best Local Similarity 96.6%; Pred. No. 5,3e-161;  
Matches 82; Conservative 1; Mismatches 12; Indels 16; Gaps 10;

Qy 1207 CTGCGCTCAGGGGAGAGAGACACACTTAAGATTGGGGCCGCGTGTAGTCAATGCC 1266  
Db 1 CTGCGCTCAGGGGAGAGAGACACACTTAAGATTGGGGCCGCGTGTAGTCAATGCC 60  
Qy 1267 CCTGATCCAGCACTTCGAGAGGCTGAGGCTGAGATCACTTGTAGCAGAGATTGAGA 1326  
Db 61 CCTGATCCAGCACTTCGAGAGGCTGAGGCTGAGATCACTTGTAGCAGAGATTGAGA 120  
Qy 1327 CCACTTACGCAACTTGGCGAGACCTGTCTTAAAAAAATTTTATTTATTTAGCCAG 1386  
Db 121 CCACTTACGCAACTTGGCGAGACCTGTCTTAAAAAAATTTTATTTATTTAGCCAG 180  
Qy 1387 TTGTGTGAGCGGCTGTAGTCCAGGTAATCCAGGTAATCCAGGTAATCCAGGTAATCCAGG 1446  
Db 181 TTGTGTGAGCGGCTGTAGTCCAGGTAATCCAGGTAATCCAGGTAATCCAGGTAATCCAGG 240  
Qy 1447 TCAGAGTTCAGACTGACAGTATGAGCATATGAGCGGCACTGCACTCAGCGCGGTAGAC 1506  
Db 241 TCAGAGTTCAGACTGACAGTATGAGCATATGAGCGGCACTGCACTCAGCGCGGTAGAC 300  
Qy 1507 TCAGTCTCAAAAATTAAGAGGAGGAGGTTGGGAGTAAATTAAGTGTGAATCAAGTAA 1566  
Db 301 TCAGTCTCAAAAATTAAGAGGAGGAGGTTGGGAGTAAATTAAGTGTGAATCAAGTAA 360  
Qy 1567 GACTTCTGGGAGACAGAAATCAAGGGTGGCGCGGCTCTTCAAGAGCTAAGTACT 1626  
Db 361 GACTTCTGGGAGACAGAAATCAAGGGTGGCGCGGCTCTTCAAGAGCTAAGTACT 420  
Qy 1627 CAGCCCAAGCCCGCTCGGCGCCCGCAGGCGAGCGG-CGCGAGAGCTTCAAGAGGAGCG 1685  
Db 421 CAGCCCAAGCCCGCTCGGCGCCCGCAGGCGAGCGGCTTCAAGAGGAGCGG 480  
Qy 1686 CCGGGGAACTCCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1742  
Db 481 CCGGGGAACTCCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 540  
Qy 1743 GAGCGGAGTTCCTT-GGCGTTCCCGCGGCGGAGCATAGCATATTAAGAGGAAAGCGCG 1801  
Db 541 GAGCGGAGTTCCTTGGGCGGCTTCCCGCGGCGGAGCATAGCATATTAAGAGGAAAGCGCG 600  
Qy 1802 TGGCGGAGTTCGCGGCTGTTCCGCTG--CGCTGAGCGGCTCAAGCGGCTTCCG 1858  
Db 601 TGGCGGAGTTCGCGGCTGTTCCGCTGAGCGGCTTCAAGCGGCTTCCG 660  
Qy 1859 CGCACGCGAGCGGCGGCGGCGGCGGAGCGTGTCTTCAAGTCTGTGCGGCTTCCG 1918  
Db 661 CGCACGCGAGCGGCGGCGGCGGCGGAGCGTGTCTTCAAGTCTGTGCGGCTTCCG 716  
Qy 1919 AGCTTTGGCGGAGCTAGGAGGAGATGGCGGAGTCTTCAAGTCTTATCAGTCTGAG 1978  
Db 717 AGCTTTGGCGGAGCTAGGAGGAGATGGCGGAGTCTTCAAGTCTTATCAGTCTGAG 775  
Qy 1979 TAGCGCAAGAGCGGCGGCGGCTTTCGAGAAATGCGAGGAGCATCCCAAGAGTCTG 2038  
Db 776 TAGCGCAAGAGCGGCGGCGGCTTTCGAGAAATGCGAGGAGCATCCCAAGAGTCTG 832  
Qy 2039 CTCGGATGCG 2049  
Db 833 CTCGGATGCG 843

## RESULT 12

US-09-960-253-107  
; Sequence 107, Application US/09960253  
; Patent No. US20020123619A1  
; GENERAL INFORMATION:  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Mohamath, Raodoh  
; APPLICANT: Lodes, Michael J.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY



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QY      1842  CGTGGCGGCTGGGTGAGCGCAGCGGAGCGGCGGCAAGCGTGTGTTCTAGGTGC 1901
        |||||||
Db      61    CCGTGCAGGCTGGGTGAGCGCAGCGGAGCGGCGGCAAGC--GTGTTTCTAGGTGC 118
        |||||||
QY      1902  TGGGCTGGGCTTCCGAGAGCTTTTGGCCGAGCTTAGGGAGAGATGGCCGAGTCTTCGATA 1961
        |||||||
Db      119  TGGGCTGGGCTTCCGAGAGCTTTTGGCCGAGCTTAGGGAGAGATGGCCGAGTCTTCGATA 178
        |||||||
QY      1962  AGCTCTATCGAGTGAAGTACGCCAAGAGCGGCGCGCTCTTGCAGAGAAATGCAGCGAGA 2021
        |||||||
Db      179  AGCTCTATCGAGTGAAGTACGCCAAGAGCGGCGCGCTCTTGCAGAGAAATGCAGCGAGA 238
        |||||||
QY      2022  GCATCCCAAGAGACTCGCTCCGATGGCCATCATGATGTCAGGTGC 2066
        |||||||
Db      239  GCATCCCAAGAGACTCGCTCCGATGGCCATCATGATGTCAGGTGC 283
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## RESULT 15

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US-10-163-587A-3
; Sequence 3, Application US/10163587A
; Publication No. US20030096263A1
; GENERAL INFORMATION:
; APPLICANT: Oliveira, Marcos
; TITLE OF INVENTION: SELECTIVE PARP-1 TARGETING FOR DESIGNING CHEMO/RADIO SENSITIZING
; FILE REFERENCE: 50229-306
; CURRENT APPLICATION NUMBER: US/10/163,587A
; CURRENT FILING DATE: 2003-01-10
; PRIOR APPLICATION NUMBER: 60/296,110
; PRIOR FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 3859
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (160)..(3204)
; OTHER INFORMATION:
US-10-163-587A-3
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Query Match      12.5%; Score 261.4; DB 14; Length 3859;
Best Local Similarity 97.2%; Pred. No. 3.8e-53;
Matches 277; Conservative 0; Mismatches 6; Indels 2; Gaps 1;
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QY      1782  AATCTATCAGGGAACGGCGGTGGCGGCGGTGTTCCGTGCGCTCTGCGCGCTCAGC 1841
        |||||||
Db      1    AATCTATCAGGGAACGGCGGTGGCGGCGGTGTTCCGTGCGCTCTGCGCGCTCAGC 60
        |||||||
QY      1842  CGTGGCGGCTGGGTGAGCGCAGCGGAGCGGCGGCAAGCGTGTGTTCTAGGTGC 1901
        |||||||
Db      61    CCGTGCAGGCTGGGTGAGCGCAGCGGAGCGGCGGCAAGC--GTGTTTCTAGGTGC 118
        |||||||
QY      1902  TGGGCTGGGCTTCCGAGAGCTTTTGGCCGAGCTTAGGGAGAGATGGCCGAGTCTTCGATA 1961
        |||||||
Db      119  TGGGCTGGGCTTCCGAGAGCTTTTGGCCGAGCTTAGGGAGAGATGGCCGAGTCTTCGATA 178
        |||||||
QY      1962  AGCTCTATCGAGTGAAGTACGCCAAGAGCGGCGCGCTCTTGCAGAGAAATGCAGCGAGA 2021
        |||||||
Db      179  AGCTCTATCGAGTGAAGTACGCCAAGAGCGGCGCGCTCTTGCAGAGAAATGCAGCGAGA 238
        |||||||
QY      2022  GCATCCCAAGAGACTCGCTCCGATGGCCATCATGATGTCAGGTGC 2066
        |||||||
Db      239  GCATCCCAAGAGACTCGCTCCGATGGCCATCATGATGTCAGGTGC 283
        |||||||
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Search completed: September 2, 2005, 03:53:59  
Job time : 2210.31 secs

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Db 1 CACACACACACACACACACACA 24

## RESULT 2

US-08-222-177A-146  
; Sequence 146, Application US/08222177A

; Patent No. 5582979

; GENERAL INFORMATION:

; APPLICANT: Weber, James L.

; TITLE OF INVENTION: LENGTH POLYMORPHISMS IN

; TITLE OF INVENTION: (dG-da)n.(dG-dt)n SEQUENCES AND METHODS OF USING SAME

; NUMBER OF SEQUENCES: 460

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Demitt Ross & Stevens, S.C.

; STREET: 8000 Excelsior Drive, Suite 401

; CITY: Madison

; STATE: Wisconsin

; COUNTRY: USA

; ZIP: 53717-1914

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/222,177A

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/341,562

; FILING DATE: 21-APR-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Sara, Charles S.

; REGISTRATION NUMBER: 30,492

; REFERENCE/DOCKET NUMBER: 09865.601

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (608) 831-2100

; TELEFAX: (608) 831-2106

; TELEX:

; INFORMATION FOR SEQ ID NO: 146:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 25 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; IMMEDIATE SOURCE:

; CLONE: md3228

; US-08-222-177A-146

Query Match 100.0%; Score 24; DB 1; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.27; Mismatches 0; Indels 0; Gaps 0;

Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 CACACACACACACACACACACA 24  
2 CACACACACACACACACACACA 25

## RESULT 3

US-08-455-627-23

; Sequence 23, Application US/08455627

; Patent No. 5571677

; GENERAL INFORMATION:

; APPLICANT: Sergei M. Gryaznov

; TITLE OF INVENTION: Convergent Synthesis of Branched and Multiply

; TITLE OF INVENTION: Connected Macromolecular Structures

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Coolley Godward LLP

; STREET: Five Palo Alto Square, 3000 El Camino Real

; CITY: Palo Alto

STATE: California  
COUNTRY: USA

ZIP: 94306-2155

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/455,627

; FILING DATE: 31-MAY-1995

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Nakamura, Jackie N.

; REGISTRATION NUMBER: 35,966

; REFERENCE/DOCKET NUMBER: LYNX-003/01 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-843-5000

; TELEFAX: 415-857-0663

; INFORMATION FOR SEQ ID NO: 23:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 27 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; US-08-455-627-23

Query Match 100.0%; Score 24; DB 1; Length 27;

Best Local Similarity 100.0%; Pred. No. 0.27; Mismatches 0; Indels 0; Gaps 0;

Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 CACACACACACACACACACACA 24  
1 CACACACACACACACACACACA 24

## RESULT 4

US-08-222-177A-143

; Sequence 143, Application US/08222177A

; Patent No. 5582979

; GENERAL INFORMATION:

; APPLICANT: Weber, James L.

; TITLE OF INVENTION: LENGTH POLYMORPHISMS IN

; TITLE OF INVENTION: (dG-da)n.(dG-dt)n SEQUENCES AND METHODS OF USING SAME

; NUMBER OF SEQUENCES: 460

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Demitt Ross & Stevens, S.C.

; STREET: 8000 Excelsior Drive, Suite 401

; CITY: Madison

; STATE: Wisconsin

; COUNTRY: USA

; ZIP: 53717-1914

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/222,177A

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/341,562

; FILING DATE: 21-APR-1989

; ATTORNEY/AGENT INFORMATION:

; NAME: Sara, Charles S.

; REGISTRATION NUMBER: 30,492

; REFERENCE/DOCKET NUMBER: 09865.601

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (608) 831-2100

; TELEFAX: (608) 831-2106

; TELEX:













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C	9	24	100.0	27	9	US-09-735-363A-1	Sequence 5, App1
C	10	24	100.0	27	9	US-09-735-363A-5	Sequence 66, App1
C	11	24	100.0	27	9	US-09-735-363A-66	Sequence 770, App
C	12	24	100.0	27	9	US-09-263-959-770	Sequence 2, App11
C	13	24	100.0	30	14	US-10-168-327-2	Sequence 93, App1
C	14	24	100.0	31	14	US-10-085-906-93	Sequence 27, App1
C	15	24	100.0	32	10	US-09-852-903C-21	Sequence 21, App1
C	16	24	100.0	32	19	US-10-723-340-10	Sequence 10, App1
C	17	24	100.0	32	19	US-09-852-903C-22	Sequence 22, App1
C	18	24	100.0	36	10	US-09-852-903C-23	Sequence 23, App1
C	19	24	100.0	36	11	US-09-909-117-7	Sequence 7, App11
C	20	24	100.0	38	10	US-09-852-903C-24	Sequence 24, App1
C	21	24	100.0	39	9	US-09-263-959-6738	Sequence 678, App
C	22	24	100.0	40	19	US-09-852-903C-25	Sequence 25, App1
C	23	24	100.0	40	19	US-10-661-088-24	Sequence 24, App1
C	24	24	100.0	40	19	US-10-661-097-24	Sequence 24, App1
C	25	24	100.0	40	19	US-10-661-097-24	Sequence 24, App1
C	26	24	100.0	40	19	US-10-661-097-24	Sequence 24, App1
C	27	24	100.0	40	19	US-10-661-099-24	Sequence 24, App1
C	28	24	100.0	40	20	US-10-661-115-24	Sequence 24, App1
C	29	24	100.0	40	22	US-10-661-402-24	Sequence 24, App1
C	30	24	100.0	40	22	US-10-661-403-24	Sequence 24, App1
C	31	24	100.0	41	9	US-09-263-959-495	Sequence 495, App
C	32	24	100.0	41	14	US-10-146-575-46	Sequence 46, App1
C	33	24	100.0	42	11	US-09-852-903C-26	Sequence 26, App1
C	34	24	100.0	44	9	US-09-263-959-797	Sequence 797, App
C	35	24	100.0	44	10	US-09-852-903C-27	Sequence 27, App1
C	36	24	100.0	45	10	US-09-852-903C-28	Sequence 28, App1
C	37	24	100.0	46	10	US-09-971-353-33	Sequence 33, App1
C	38	24	100.0	47	9	US-09-263-959-514	Sequence 514, App
C	39	24	100.0	47	9	US-09-263-959-514	Sequence 514, App
C	40	24	100.0	48	9	US-09-263-959-771	Sequence 771, App
C	41	24	100.0	48	10	US-09-852-903C-29	Sequence 29, App1
C	42	24	100.0	48	10	US-09-971-353-28	Sequence 28, App1
C	43	24	100.0	48	14	US-10-085-906-114	Sequence 114, App
C	44	24	100.0	48	14	US-10-085-906-234	Sequence 234, App
C	45	24	100.0	48	14	US-10-085-906-306	Sequence 306, App

## RESULT 1

```

Sequence 21, Application US/09735363A
Patent No. US2010041681A1
GENERAL INFORMATION:
APPLICANT: Fillon, Mario
APPLICANT: Phillip, Nigel
TITLE OF INVENTION: Therapeutically Useful Synthetic Oligonucleotides
FILE REFERENCE: 02811-0181
CURRENT APPLICATION NUMBER: US/09/735,363A
CURRENT FILING DATE: 2000-12-12
PRIOR APPLICATION NUMBER: 60/170,325
PRIOR FILING DATE: 1999-12-13
PRIOR APPLICATION NUMBER: 60/228,925
PRIOR FILING DATE: 2000-08-29
NUMBER OF SEQ ID NOS: 87
SOFTWARE: PatentIn version 3.0
SEQ ID NO 21
LENGTH: 24
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-735-363A-21

```

Query Match	100.0%;	Score 24;	DB 9;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches	24;	Conservative	0;	Mismatches
				Indels
				Gaps
0Y	1	CACACACACACACACACACA	24	

Db 24 CACACACACACACACACACACA 1

RESULT 2  
US-09-77

US-09-776-479-1068/c  
 ? Sequence 1068, Application US/09776479  
 ? Publication No. US20030087848A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Bratzler, Robert L.  
 ? APPLICANT: Petersen, Deanna M.  
 ? TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
 ? TITLE OF INVENTION: Treatment of Asthma and Allergy  
 ? FILE REFERENCE: C1037/7013 (HCL/MAT)  
 ? CURRENT APPLICATION NUMBER: US/09/776, 479  
 ? CURRENT FILING DATE: 2001-02-02  
 ? PRIOR APPLICATION NUMBER: US 60/179,991  
 ? PRIOR FILING DATE: 2000-02-03  
 ? NUMBER OF SEQ ID NOS: 1093  
 ? SOFTWARE: FastSeq for Windows Version 3.0  
 ? SEQ ID NO 1068  
 ? LENGTH: 24  
 ? TYPE: DNA  
 ? ORGANISM: Artificial Sequence  
 ? FEATURE:  
 ? OTHER INFORMATION: Synthetic Sequence  
 US-09-776-479-1068

Query Match	100.0%;	Score 24;	DB 10;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches 24;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY		1	CACACACACACACACACACA	24
Db		24	CACACACACACACACACACA	1

### RESULT 3

```

US-09-776-479-1068/c
; Sequence 1068, Application US/09776479
; Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Fournon, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TITLE OF INVENTION: Treatment of Asthma and Allergy
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776, 479
CURRENT FILING DATE: 2001-02-03
PRIOR APPLICATION NUMBER: US 60/179, 991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1068
LENGTH: 24
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-1068

```

Query Match	100.0%;	Score 24;	DB 11;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches 24;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

## RESULT 4

US-09-909-317-6  
; Sequence 6, Application US/09909317  
; Publication No. US20040152075A1

Query Match	100.0%;	Score 24;	DB 11;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches 24; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	Db
1 CACACACACACACACACACACA 24	1 CACACACACACACACACACACA 24

## RESULT 5

```

US-10-112-653-1012/c
Sequence 1012, Application US/10112653
Publication No. US20030050268A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Berg, Daniel J.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
FILE REFERENCE: C01039/70066(AMS)
CURRENT APPLICATION NUMBER: US/10/112, 653
CURRENT FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: US 60/279, 642
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 1040
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1012
LENGTH: 24
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-1012

```

Query Match	100.0%;	Score 24;	DB 14;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches 24; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

Qy	1	24
Db	CACACACACACACACACACACA	CACACACACACACACACACACA

## RESULT 6

US-10-017-995-1068/c  
Sequence 1068, Application US/10017995  
Publication No. US20030055014A1  
GENERAL INFORMATION:  
Applicant: Braetzer, Robert L.  
TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids  
FILE REFERENCE: C10377/025 (HCL/MAT)  
CURRENT APPLICATION NUMBER: US/10/017,995  
CURRENT FILING DATE: 2001-12-18

```

? PRIOR APPLICATION NUMBER: US 60/255,534
? PRIOR FILING DATE: 2000-12-14
? NUMBER OF SEQ ID NOS: 1093
? SOFTWARE: SeqSeq for Windows Version 3.0
? SEQ ID NO 1068
? LENGTH: 24
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Synthetic Sequence
US-10-017-955-1068

```

Query Match	100.0%	Score 24;	DB 14;	length 24;
Best Local Similarity	100.0%	Pred. No.	0.47;	
Matches	24;	Conservative	0;	Mismatches 0;
				Gaps 0;

QY		1	CACACACACACACACACACA	24
Db		24	CACACACACACACACACACA	1

## RESULT 7

```

US-10-314-578-1068/c
? Sequence 1068, Application US/10314578
? Publication No. US20030212026A1
? GENERAL INFORMATION:
? APPLICANT: Krieg, Arthur M.
? APPLICANT: Schelter, Christian
? APPLICANT: Volmetter, Jorg
? TITLE OF INVENTION: Immunostimulatory Nuc
? FILE REFERENCE: C1039/77035 (HCL/MAT)
? CURRENT APPLICATION NUMBER: US/10/314, 578
? CURRENT FILING DATE: 2003-12-09
? PRIOR APPLICATION NUMBER: US 60/156, 113
? PRIOR FILING DATE: 1999-09-25
? PRIOR APPLICATION NUMBER: US 60/156, 135
? PRIOR FILING DATE: 1999-09-27
? PRIOR APPLICATION NUMBER: US 60/227, 436
? PRIOR FILING DATE: 2000-08-23
? NUMBER OF SEQ ID NOS: 1145
? SOFTWARE: ParseSeq for Windows Version 3.0
? SEQ ID NO 1068
? LENGTH: 268
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Synthetic Sequence
US-10-314-578-1068

```

Query Match	100.0%	Score 24	DB 17	Length 24
Best Local Similarity	100.0%	Pred. No.	0.47	
Matches 24	Conservative 0	Mismatches	0	Gaps 0

Qy 1 CACACACACACACACACACACA 24  
Db 24 CACACACACACACACACACACA 1

## RESULT 8

US-10-831-778-1068/c  
Sequence 1068, Application US/10831778  
Publication No. US20040235774A1  
GENERAL INFORMATION:  
APPLICANT: Bratzler, Robert L.  
APPLICANT: Petersen, Deanna M.  
APPLICANT: Fourn, Yves  
TITLE OF INVENTION: Immunoestimulatory Nucleic Acids for the  
TREATMENT OF ALLERGY  
TITLE OF INVENTION: Treatment of Asthma and Allergy  
FILE REFERENCE: C1037/7013 (HCL/MAT)  
CURRENT APPLICATION NUMBER: US/10/831,778  
CURRENT FILING DATE: 2004-04-23  
PRIORITY DATE: 2000-02-03  
PRIORITY APPLICATION NUMBER: US 60/179,991  
PRIORITY FILING DATE: 2000-02-03

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; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: Pstscseq for Windows Version 3.0
; SEQ ID NO 1068
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
;J5-10-831-778-1068

```

Query Match	100.0%;	Score 24;	DB 20;	Length 24;
Best Local Similarity	100.0%;	Pred. No. 0.47;		
Matches	24;	Conservative	0;	Mismatches
			0;	Indels
				Gaps
				0;

```

Qy      1 CACACACACACACACACACACA 24
        |||||
Db      24 CACACACACACACACACACACA 1

```

RESULT 5  
US-09-73

```

? Sequence 1 Application US/09735363A
? Patent No. US20010041681A1
? GENERAL INFORMATION:
? APPLICANT: Elior, Mario
? APPLICANT: Phillip, Nigel
? TITLE OF INVENTION: Therapeutically Useful Synthetic Oligonucleotides
? FILE REFERENCE: 02811-0181
? CURRENT APPLICATION NUMBER: US/09/735,363A
? CURRENT FILING DATE: 2000-12-12
? PRIOR APPLICATION NUMBER: 60/170,325
? PRIOR FILING DATE: 1999-12-13
? PRIOR APPLICATION NUMBER: 60/228,925
? PRIOR FILING DATE: 2000-08-29
? NUMBER OF SEQ ID NOS: 87
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 1
? LENGTH: 27
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Synthetic Oligonucleotide
? US-09-735-363A-1

```

Query Match	100.0%	Score 24	DB 9	Length 27
Best local similarity	100.0%	Pred. No. 0.47		
Matches 24	Conservative 0	Mismatches 0	Indels 0	Gaps 0

QY		1	CACACACACACACACACACA	24
Db		27	CACACACACACACACACACA	4

RESULT 10

```

US-09-/35-363A-5/G
/ Sequence 5, Application US/09735363A
/ Patent No. US20010041681A1
/ GENERAL INFORMATION:
/ APPLICANT: Filion, Mario
/ TITLE OF INVENTION: Therapeutically Useful Synthetic Oligonucleotides
/ FILE REFERENCE: 02811-0181
/ CURRENT APPLICATION NUMBER: US/09/735,363A
/ PRIORITY FILING DATE: 2000-12-12
/ PRIOR APPLICATION NUMBER: 60/170,325
/ PRIOR FILING DATE: 1998-12-13
/ PRIOR APPLICATION NUMBER: 60/228,925
/ PRIOR FILING DATE: 2000-08-29
/ NUMBER OF SEQ ID NOS: 87
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 5
/ LENGTH: 27
/ TYPE: DNA

```

ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Oligonucleotide  
US-09-735-363A-5

Query Match 100.0%; Score 24; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACACACACACACACACACACA 24  
DB 26 CACACACACACACACACACACA 3

RESULT 11  
US-09-735-363A-66/c  
Sequence 66, Application US/09735363A  
Patent No. US20010041681A1  
GENERAL INFORMATION:  
APPLICANT: Fillion, Mario  
APPLICANT: Phillips, Nigel  
TITLE OF INVENTION: Therapeutically Useful Synthetic Oligonucleotides  
FILE REFERENCE: 02811-0181  
CURRENT APPLICATION NUMBER: US/09/735,363A  
CURRENT FILING DATE: 2000-12-12  
PRIOR APPLICATION NUMBER: 60/170,325  
PRIOR FILING DATE: 1999-12-13  
PRIOR APPLICATION NUMBER: 60/228,925  
PRIOR FILING DATE: 2000-08-29  
NUMBER OF SEQ ID NOS: 87  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 66  
LENGTH: 27  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Oligonucleotide  
US-09-735-363A-66

Query Match 100.0%; Score 24; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACACACACACACACACACACA 24  
DB 27 CACACACACACACACACACACA 4

RESULT 12  
US-09-263-959-770/c  
Sequence 770, Application US/09263959  
Patent No. US20020150891A1  
GENERAL INFORMATION:  
APPLICANT: Hood, Leroy E.  
APPLICANT: Rowen, Lee  
APPLICANT: Koop, Ben F.  
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH UTILIZE  
NUMBER OF SEQUENCES: 1279  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seed and Berry LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: US  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/263,959  
FILING DATE: 05-MAR-1999

CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: McMaisters, David D.  
REGISTRATION NUMBER: 33,963  
REFERENCE/DOCKET NUMBER: 920010.426C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 770:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 27 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-263-959-770

Query Match 100.0%; Score 24; DB 9; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACACACACACACACACACACA 24  
DB 26 CACACACACACACACACACACA 3

RESULT 13  
US-10-168-327-2/c  
Sequence 2, Application US/10168327  
Publication No. US20030176381A1  
GENERAL INFORMATION:  
APPLICANT: Fillion, Mario C.  
APPLICANT: Phillips, Nigel C.  
TITLE OF INVENTION: Hyaluronic Acid in the Treatment of Cancer  
FILE REFERENCE: 02811-0211 (42368-274915)  
CURRENT APPLICATION NUMBER: US/10/168,327  
CURRENT FILING DATE: 2002-10-07  
PRIOR APPLICATION NUMBER: PCT/CA00/01562  
PRIOR FILING DATE: 2000-12-28  
NUMBER OF SEQ ID NOS: 2  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 2  
LENGTH: 27  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic oligonucleotide  
US-10-168-327-2

Query Match 100.0%; Score 24; DB 16; Length 27;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACACACACACACACACACACA 24  
DB 27 CACACACACACACACACACACA 4

RESULT 14  
US-10-085-906-93/c  
Sequence 93, Application US/10085906  
Publication No. US20030054371A1  
GENERAL INFORMATION:  
APPLICANT: Yang, Vincent  
APPLICANT: Wu, Paul  
APPLICANT: Gray, Gary S.  
TITLE OF INVENTION: POLYMORPHIC ELEMENTS IN THE  
FILE REFERENCE: GNN-5343CP2  
CURRENT APPLICATION NUMBER: US/10/085,906  
CURRENT FILING DATE: 2002-02-27  
PRIOR APPLICATION NUMBER: US 60/126,215  
PRIOR FILING DATE: 1999-03-25  
PRIOR APPLICATION NUMBER: US 09/534,061





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ADDRESSSEE: Demilt Ross & Stevens, S.C.  
STREET: 8000 Excelclor Drive, Suite 401  
City: Madison  
STATE: Wisconsin  
COUNTRY: USA  
ZIP: 53717-1914  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/222,177A  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/341,562  
FILING DATE: 21-Apr-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Sara, Charles S.  
REGISTRATION NUMBER: 30,492  
REFERENCE/DOCKET NUMBER: 09865, 601  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (608) 831-2100  
TELEFAX: (608) 831-2106  
TELEX:  
INFORMATION FOR SEQ ID NO: 403:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 40 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-222-177A-403

Query Match	100.0%	Score 36	DB 1	Length 40
Best Local Similarity	100.0%	Pred. NC	7.8e-05	
Matches 36	Conservative 0	Mismatches 0	Indels 0	Gaps 0

<b>Qy</b>	1 CACACACACACACACACACACACACACA 36
<b>D<sub>b</sub></b>	1 CACACACACACACACACACACACACACA 36

## RESULT 8

US-08-222-177A-74  
Sequence 74, Application US/08222177A  
Patent No. 5582979  
GENERAL INFORMATION:  
APPLICANT: Weber, James L.  
TITLE OF INVENTION: LENGTH POLYMORPHISMS IN  
TITLE OF INVENTION: (dc-da)n.(dg-dr)n SEQUENCES AND METHODS OF USING SAME  
NUMBER OF SEQUENCES: 460  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dewitt Ross & Stevens, S.C.  
STREET: 8000 Excelsior Drive, Suite 401  
CITY: Madison  
STATE: Wisconsin  
COUNTRY: USA  
ZIP: 53717-1914  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/222,177A  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/341,562  
FILING DATE: 21-APR-1989  
ATTORNEY/AGENT INFORMATION:

```

1 NAME: Sara, Charles S.
2 REGISTRATION NUMBER: 30,492
3 REFERENCE/DOCKET NUMBER: 09865.601
4 TELECOMMUNICATION INFORMATION:
5 TELEPHONE: (608) 831-2100
6 TELEFAX: (608) 831-2106
7
8 TELEX:
9
10 INFORMATION FOR SEQ ID NO: 74:
11
12 SEQUENCE CHARACTERISTICS:
13
14 LENGTH: 41 base pairs
15
16 TYPE: nucleic acid
17
18 STRANDEDNESS: double
19
20 TOPOLOGY: linear
21
22 MOLECULE TYPE: DNA (genomic)
23
24 IMMEDIATE SOURCE:
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26 CLONE: mfd8rs
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Query Match      100.0%; Score 36; DB 1; Length 41;
Best Local Similarity 100.0%; Pred. No. 7 8e-05;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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**Q7**     1 CACACACACACACACACACACACACACA 36  
         |||||  
**D6**     2 CACACACACACACACACACACACACACA 37

## RESULT 9

US-08-222-177A-183  
; Sequence 183, Application US/08222177A

```

1  APPLICANT: Weber, James L.
2  TITLE OF INVENTION: LENGTH POLYMORPHISMS IN
3  TITLE OF INVENTION: (dc-da)n-(dg-dt)n SEQUENCES AND METHODS OF USING SAME
4  NUMBER OF SEQUENCES: 460
5

```

ADDRESSEE: Dewitt Ross & Stevens, S.C.  
STREET: 8000 Excelsior Drive, Suite 401

STATE: Wisconsin  
COUNTRY: USA  
ZIP: 53717-1914

COMPUTER READABLE FORM:

1 MEDIUM TYPE: Floppy disk  
 2 COMPUTER: IBM PC compatible  
 3 OPERATING SYSTEM: PC-DOS/MS-DOS  
 4 SOFTWARE: PatentIn Releasee #1.0, Version #1.25  
 5  
 6 CURRENT APPLICATION DATA:  
 7 APPLICATION NUMBER: US/08/222,177A  
 8 FILING DATE:  
 9 CLASSIFICATION: 435  
 10 PRIOR APPLICATION DATA:  
 11 APPLICATION NUMBER: US 07/341,562  
 12 FILING DATE: 21-APR-1989  
 13 ATTORNEY/AGENT INFORMATION:  
 14 NAME: Sara, Charles S.  
 15 REGISTRATION NUMBER: 30,492  
 16 REFERENCE/DOCKET NUMBER: 09865.601  
 17  
 18 TELECOMMUNICATION INFORMATION:  
 19 TELEPHONE: (608) 831-2100  
 20 TELEFAX: (608) 831-2106  
 21  
 22 TELEX:  
 23  
 24 INFORMATION FOR SEQ ID NO: 183:  
 25 SEQUENCE CHARACTERISTICS:  
 26 LENGTH: 41 base pairs  
 27 TYPE: nucleic acid  
 28 STRANDEDNESS: double  
 29 TOPOLOGY: linear  
 30 MOLECULE TYPE: DNA (genomic)  
 31 IMMEDIATE SOURCE:  
 32 CLONE: mfd45ts  
 33  
 34 US-08-222-177A-183



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      ; TOPOLOGY: linear
      ; MOLECULE TYPE: DNA (genomic)
      ; IMMEDIATE SOURCE:
      ; CLONE: med123rs
      ;
US-08-222-177A-368

Query Match                                100.0%; Score 36; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 7.8e-05;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CACACACACACACACACACACACACACACACA 36
        |||||||
Db       2 CACACACACACACACACACACACACACACACA 37

RESULT 14
US-08-222-177A-195
; Sequence 195, Application US/08222177A
; Patent No. 5582979
;
GENERAL INFORMATION:
APPLICANT: Weber, James L.
TITLE OF INVENTION: LENGTH POLYMORPHISMS IN
TITLE OF INVENTION: (dc-da)n.(dg-dt)n SEQUENCES AND METHODS OF USING SAME
NUMBER OF SEQUENCES: 460
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dewitt Ross & Stevens, S.C.
STREET: 8000 Excelstor Drive, Suite 401
CITY: Madison
STATE: Wisconsin
COUNTRY: USA
ZIP: 53717-1914
MEDIUM TYPE: Floppy disk
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/222,177A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/341,562
FILING DATE: 21-APR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Sara, Charles S.
REGISTRATION NUMBER: 30,492
REFERENCE/DOCKET NUMBER: 09865.601
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 831-2100
TELEFAX: (608) 831-2106
TELEX:
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
IMMEDIATE SOURCE:
CLONE: mEd49rs
;
US-08-222-177A-195

Query Match                                100.0%; Score 36; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 7.8e-05;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CACACACACACACACACACACACACACACACA 36
        |||||||
Db       1 CACACACACACACACACACACACACACACACA 36

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? APPLICATION NUMBER: US/09/263,959  
 ? FILING DATE: 05-MAR-1999  
 ? CLASSIFICATION:  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Mcmasters, David D.  
 ? REGISTRATION NUMBER: 33,963  
 ? REFERENCE/DOCKET NUMBER: 920010.426C2  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (206) 622-4800  
 ? TELEFAX: (206) 682-6031  
 ? INFORMATION FOR SEQ ID NO: 495:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 41 base pairs  
 ? TYPE: nucleic acid  
 ? STRANDEDNESS: single  
 ? TOPOLOGY: linear  
 ? US-09-263-959-495

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Query Match      100.0%; Score 36; DB 9; Length 41;
Best Local Similarity 100.0%; Pred. No. 7.2e-05;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 CACACACACACACACACACACACACACACA 36
         |||||
Db      41 CACACACACACACACACACACACACACACA 6

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US RESULT 14
US-09-852-903C-26
Sequence 26, Application US/098522903C
Publication No. US20030104376A1
GENERAL INFORMATION:
APPLICANT: Diattech Pty. Ltd.
TITLE OR INVENTION: An assay
FILE REFERENCE: 2414918/EH
CURRENT APPLICATION NUMBER: US/09/852,903C
PRIORITY FILING DATE: 2001-05-09
PRIOR APPLICATION NUMBER: US 60/202,771
PRIOR FILING DATE: 2000-05-09
PRIOR APPLICATION NUMBER: US 60/202,559
PRIOR FILING DATE: 2000-05-10
NUMBER OF SEQ ID NOS: 38
SOFTWARE: PatentIn version 3.0
SEQ ID NO 26
LENGTH: 42
TYPE: DNA
ORGANISM: artificial sequence
FEATURES:
NAME/KEY: misc feature
LOCATION: (1)..(7)
OTHER INFORMATION: CA-22
US-09-852-903C-26

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	Query Match	100.0%; Score 36; DB 10;	Length 42;
	Best Local Similarity	100.0%; Pred. No. 7.2e-05;	
	Matches 36; Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
Qy	1 CACGACACACACACACACACACACACA	36	
Db	1 CACACACACACACACACACACACACACA	36	

RESULT 15  
US-09-852-903C-27  
Sequence 27, Application US/09852903C  
Publication No. US20030104376A1  
GENERAL INFORMATION:  
APPLICANT: Diattech Pty. Ltd.  
TITLE OR INVENTION: An assay  
FILE REFERENCE: 2414918/EJH  
CURRENT APPLICATION NUMBER: US/09/852,903C  
CURRENT FILING DATE: 2001-05-09  
PRIOR APPLICATION NUMBER: US 60/202,771

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: PRIOR FILING DATE: 2000-05-09
: PRIOR APPLICATION NUMBER: US 60/202,555
: PRIOR FILING DATE: 2000-05-10
: NUMBER OF SEQ ID NOS: 38
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 27
: LENGTH: 44
: TYPE: DNA
: ORGANISM: artificial sequence
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1..7)
: OTHER INFORMATION: CA-23
US-09-852-903C-27

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	Query Match	100.0%;	Score 36;	DB 10;	length 44;
	Best Local Similarity	100.0%;	Pred. No. 7.2e-05;		
	Matches	36;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1 CACACACACACACACACACACACA	36			
D8	1 CACACACACACACACACACACACA	36			

Search completed: September 2, 2005, 03:54:02  
Job time : 39.0082 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 2, 2005, 03:54:15 ; Search time 377 Seconds  
(without alignments)  
9049,435 Million cell updates/sec

Title: US-09-909-317-5  
Perfect score: 2085  
Sequence: 1 tttagggatcatatagttgtc.....cgggcccgtctgcggcggg 2085

Scoring table: OLIGO NUC  
Gapop 60.0 , Gapext 60.0

Searched: 1202784 seqs, 818138359 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

- 1: Issued\_Patents\_NA.\*
- 2: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PTUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfile1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	175	8.4	3660	US-09-517-467B-3	Sequence 3, Appli
2	175	8.4	3747	US-08-044-618-5	Sequence 5, Appli
3	120	5.8	3045	US-09-596-248D-24	Sequence 24, Appli
4	73	3.5	3792	US-08-860-886-1	Sequence 1, Appli
5	71	3.4	3200	US-09-596-248D-46	Sequence 46, Appli
6	64	3.1	5345	US-08-044-618-7	Sequence 7, Appli
7	50	2.4	8848	US-09-949-016-14854	Sequence 14854, A
8	46	2.2	601	US-09-949-016-178057	Sequence 178057, A
9	46	2.2	601	US-09-949-016-178058	Sequence 178058, A
10	46	2.2	69909	US-09-949-016-13423	Sequence 13423, A
11	46	2.2	98302	US-09-949-016-16847	Sequence 16847, A
12	46	2.2	114426	US-09-949-016-15078	Sequence 15078, A
13	45	2.2	73	US-09-513-999C-16098	Sequence 16098, A
14	45	2.2	74	US-09-513-999C-16110	Sequence 16110, A
15	45	2.2	123	US-09-513-999C-29990	Sequence 29990, A
16	45	2.2	2181	US-08-737-371A-1	Sequence 1, Appli
17	45	2.2	2181	PCT-US95-05853-1	Sequence 1, Appli
18	45	2.2	46253	US-09-949-016-11890	Sequence 11890, A
19	45	2.2	46257	US-09-949-016-13711	Sequence 13711, A
20	45	2.2	194889	US-09-949-016-15654	Sequence 15654, A
21	44	2.1	24204	US-09-949-016-16232	Sequence 16232, A
22	44	2.1	77626	US-09-949-016-12608	Sequence 12608, A
23	44	2.1	112623	US-09-949-016-14374	Sequence 14374, A
24	44	2.1	601	US-09-949-016-18032	Sequence 18032, A
25	43	2.1	601	US-09-949-016-18033	Sequence 18033, A
26	43	2.1	601	US-09-949-016-144922	Sequence 144922, A
27	43	2.1	601	US-09-949-016-161292	Sequence 161292, A

28	43	2.1	601	US-09-949-016-161293	Sequence 161293, A
29	43	2.1	2252	US-09-949-016-4519	Sequence 4519, Ap
30	43	2.1	2273	US-09-949-016-1619	Sequence 1619, Appli
31	43	2.1	8905	US-09-949-016-11761	Sequence 11761, A
32	43	2.1	8907	US-09-949-016-16261	Sequence 16261, A
33	43	2.1	113042	US-09-949-016-12343	Sequence 12343, A
34	43	2.1	113046	US-09-949-016-15246	Sequence 15246, A
35	43	2.1	152132	US-09-949-016-13845	Sequence 13845, A
36	43	2.1	152145	US-09-949-016-12371	Sequence 12371, A
37	43	2.1	117251	US-09-949-016-15841	Sequence 15841, A
38	42	2.0	601	US-09-949-016-199479	Sequence 199479, A
39	42	2.0	1638	US-09-620-312D-810	Sequence 810, App
40	42	2.0	16738	US-09-949-016-12168	Sequence 12168, A
41	42	2.0	16738	US-09-949-016-14678	Sequence 14678, A
42	42	2.0	35609	US-09-949-016-17370	Sequence 17370, A
43	42	2.0	38206	US-09-949-016-15527	Sequence 15527, A
44	42	2.0	40493	US-09-949-016-15453	Sequence 15453, A
45	42	2.0	41863	US-09-949-016-14948	Sequence 14948, A

ALIGNMENTS

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RESULT 1
US-09-517-467B-3
Sequence 3, Application US/09517467B
Patent No. 6451602
GENERAL INFORMATION:
APPLICANT: Ian Popoff
APPLICANT: Lex M. Cowser
TITLE OF INVENTION: ANTISENSE MODULATION OF PARP EXPRESSION
FILE REFERENCE: RTS-0150
CURRENT APPLICATION NUMBER: US/09/517,467B
PRIOR APPLICATION NUMBER: 09/517,467
PRIOR FILING DATE: 2000-03-02
NUMBER OF SEQ ID NOS: 345
SEQ ID NO 3
LENGTH: 3660
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (160)...(3204)
US-09-517-467B-3

Query Match      8.4%; Score 175; DB 3; Length 3660;
Best Local Similarity 100.0%; Pred. No. 66-59;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1888 GGTGTTCTAGATGCTGGCGCTTCGGAGCTTTGGCGGAGCTAGGGAGGATGGC 1947
Db      105  GTGTTCTAGATGCTGGCGCTTCGGAGCTTTGGCGGAGCTAGGGAGGATGGC 164

Qy      1948 GGAATCTTCGATTAAGCTTATCGAGTCAGTACGCAAGAGCGGCGCTCTTGCAA 2007
Db      165  GAGATCTTCGATTAAGCTTATCGAGTCAGTACGCAAGAGCGGCGCTCTTGCAA 224

Qy      2008 GAAATGAGGAGAGGATCCCAAGAGCTGCTCCGATGCGCATCATGTGTGAG 2062
Db      225  GAAATGAGGAGAGGATCCCAAGAGCTGCTCCGATGCGCATCATGTGTGAG 279

RESULT 2
US-08-044-618-5
Sequence 5, Application US/08044618
Patent No. 5449605
GENERAL INFORMATION:
APPLICANT: SMITHSON, MARK
TITLE OF INVENTION: METHOD OR DETECTING A PREDISPOSITION TO
TITLE OF INVENTION: CANCER BY THE USED OF RESTRICTION FRAGMENT LENGTH
TITLE OF INVENTION: POLYMORPHISM OF THE GENE FOR THE HUMAN POLY (ADP-RIBOSE)
TITLE OF INVENTION: POLYMERASE
```

```

; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1225 Connecticut Suite 300
; CITY: Washington
; STATE: D.C.
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/044,618
; FILING DATE: 1993/04/06
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/257,696
; FILING DATE: 14-OCT-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: FOX, SAMUEL L
; REGISTRATION NUMBER: 30,353
; REFERENCE/DOCKET NUMBER: 0654,0490001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)466-0800
; TELEFAX: (202)833-8716
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3747 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-044-618-5

Query Match      8.4%; Score 175; DB 1; Length 3747;
Best Local Similarity 100.0%; Pred. No. 6e-59;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1888 GTGTTTCTAGAGTCGTGCGCTCGGAGCTTCCGAGCTTTGGCGAGCTAGGGAGAGATGGC 1947
DB 136 GTGTTTCTAGAGTCGTGCGCTCGGAGCTTCCGAGCTTTGGCGAGCTAGGGAGAGATGGC 195
QY 1948 GGAAGCTTCGAGTAAGCTCTATGAGTCGAGTACGCAAGAGCGGGCGCCCTCTTGGCAA 2007
DB 196 GGAAGCTTCGAGTAAGCTCTATGAGTCGAGTACGCAAGAGCGGGCGCCCTCTTGGCAA 255
QY 2008 GAATGAGGAGAGCATCCCAAGAGCTGGCTCCGAGTGGCCATCATGTGTGAG 2062
DB 256 GAATGAGGAGAGCATCCCAAGAGCTGGCTCCGAGTGGCCATCATGTGTGAG 310

RESULT 3
US-09-596-248D-24
; Sequence 24; Application US/09596248D
; Patent No. 6599727
; GENERAL INFORMATION:
; APPLICANT: Christenson, Erik
; APPLICANT: Demaggio, Anthony J
; APPLICANT: Goldman, Phyllis S
; APPLICANT: McElligott, David L
; TITLE OF INVENTION: Human Poly(ADP-Ribose) Polymerase 2 Materials and
; TITLE OF INVENTION: Methods
; FILE REFERENCE: 27866/36544
; CURRENT APPLICATION NUMBER: US/09/596,248D
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/139,543
; PRIOR FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 24
; LENGTH: 3045
; TYPE: DNA
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```

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(3045)
; OTHER INFORMATION:
US-09-596-248D-24

Query Match      5.8%; Score 120; DB 4; Length 3045;
Best Local Similarity 100.0%; Pred. No. 1.6e-37;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1943 ATGGCGAGCTCTTGGATTAAGCTCTATGAGTCGAGTACGCCAAGCGGGCGGCTCT 2002
DB 1 ATGGCGAGCTCTTGGATTAAGCTCTATGAGTCGAGTACGCCAAGCGGGCGGCTCT 60
QY 2003 TCGAAGAAATGACGAGAGCATCCCAAGAGCTCGCTCCGAGTGGCCATCATGTGTGAG 2062
DB 61 TCGAAGAAATGACGAGAGCATCCCAAGAGCTCGCTCCGAGTGGCCATCATGTGTGAG 120

RESULT 4
US-08-860-886-1
; Sequence 1; Application US/08860886
; Patent No. 6335009
; GENERAL INFORMATION:
; APPLICANT: Burke, Alexander
; APPLICANT: Zur Hausen, Harald
; APPLICANT: Jan-Heiner, Kupper
; TITLE OF INVENTION: VECTORS AND VIRUSES FOR USE
; TITLE OF INVENTION: IN GENE THERAPY
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds, LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM compatible
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/860,886
; FILING DATE: 03-OCT-1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 8484-0028-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-493-4935
; TELEFAX: 650-493-5556
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3792 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 96...3134
; OTHER INFORMATION:
US-08-860-886-1

Query Match      3.5%; Score 73; DB 3; Length 3792;
Best Local Similarity 98.9%; Pred. No. 3.1e-19;
Matches 173; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 1888 GTGTTTCTAGCTGCTGCGCTTCCGAGCTTTGGCGGCACTAGGGAGATGCG 1947  
DB 41 GTGTTTCTAGCTGCTGCGCTTCCGAGCTTTGGCGGCACTAGGGAGATGCG 100  
QY 1948 GGAGCTTGGATGATGCTTATGAGTGCAGTACGCAAGAGCGGGCGGCTTTGCA 2007  
DB 101 GGAGCTTGGATGATGCTTATGAGTGCAGTACGCAAGAGCGGGCGGCTTTGCA 160  
QY 2008 GAATGAGGAGAGCATCCCAAGACTGCTCCGATGCGCATGATGATGAG 2062  
DB 161 GAATGAGGAGAGCATCCCAAGACTGCTCCGATGCGCATGATGATGAG 215

RESULT 5  
US-09-596-248D-46  
Sequence 46, Application US/09596248D  
Patent No. 6599727  
GENERAL INFORMATION:  
APPLICANT: Christenson, Erik  
APPLICANT: Demaggio, Anthony J  
APPLICANT: Goldman, Phyllis S  
APPLICANT: McEllisott, David L  
TITLE OF INVENTION: Human Poly(ADP-Ribose) Polymerase 2 Materials and  
TITLE OF INVENTION: Methods  
FILE REFERENCE: 27866/36544  
CURRENT APPLICATION NUMBER: US/09/596,248D  
CURRENT FILING DATE: 2000-06-16  
PRIOR APPLICATION NUMBER: 60/139,543  
PRIOR FILING DATE: 1999-06-16  
NUMBER OF SEQ ID NOS: 68  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 46  
LENGTH: 3200  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:hpAP1/hpAP2  
OTHER INFORMATION: Fusion  
US-09-596-248D-46

Query Match 3.4%; Score 71; DB 4; Length 3200;  
Best Local Similarity 100.0%; Pred. No. 1.9e-18;  
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1943 ATGCGGAGCTTCGATGATGCTTATGAGTGCAGTACGCAAGAGCGGGCGGCTCT 2002  
DB 109 ATGCGGAGCTTCGATGATGCTTATGAGTGCAGTACGCAAGAGCGGGCGGCTCT 168  
QY 2003 TGCAGGAATG 2013  
DB 169 TGCAGGAATG 179

RESULT 6  
US-08-044-618-7  
Sequence 7, Application US/08044618  
Patent No. 5449605  
GENERAL INFORMATION:  
APPLICANT: SMIDSON, MARK  
TITLE OF INVENTION: METHOD OR DETECTING A PREDISPOSITION TO  
TITLE OF INVENTION: CANCER BY THE USED OF RESTRICTION FRAGMENT LENGTH  
TITLE OF INVENTION: POLYMORPHISM OF THE GENE FOR THE HUMAN POLY (ADP-RIBOSE)  
TITLE OF INVENTION: POLYMERASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Keseler, Goldstein & Fox  
STREET: 1225 Connecticut Suite 300  
CITY: Washington  
STATE: D.C.  
ZIP: 20036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/044,618  
FILING DATE: 19930406  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/257,696  
FILING DATE: 14-OCT-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: FOX, SAMUEL L  
REGISTRATION NUMBER: 30,353  
REFERENCE/DOCKET NUMBER: 0654,0490001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)466-0800  
TELEFAX: (202)833-8716  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5345 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-044-618-7

Query Match 3.1%; Score 64; DB 1; Length 5345;  
Best Local Similarity 100.0%; Pred. No. 9.6e-16;  
Matches 64; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1998 CCTTTCGAGGAATGAGGAGAGCATCCCAAGACTGCTCCGATGCGCATATG 2057  
DB 828 CCTTTCGAGGAATGAGGAGAGCATCCCAAGACTGCTCCGATGCGCATATG 887  
QY 2058 TGCA 2061  
DB 888 TGCA 891

RESULT 7  
US-09-949-016-14854/c  
Sequence 14854, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14854  
LENGTH: 8848  
TYPE: DNA  
ORGANISM: Human  
US-09-949-016-14854

Query Match 2.4%; Score 50; DB 4; Length 8848;  
Best Local Similarity 100.0%; Pred. No. 2.6e-10;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 770 GGTGGAGATGCTTGAAGGCGGGGTTCAAGACGAGCTGGGCAACAT 819  
DB 4278 GGTGGAGATGCTTGAAGGCGGGGTTCAAGACGAGCTGGGCAACAT 4229

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RESULT 8
US-09-949-016-178057
; Sequence 178057, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 178057
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-178057

Query Match          2.2%; Score 46; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 1.3e-08;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 306 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 351
DB 237 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 282
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RESULT 9
US-09-949-016-178058
; Sequence 178058, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 178058
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-178058

Query Match          2.2%; Score 46; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 1.3e-08;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 306 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 351
DB 302 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 347

RESULT 10
US-09-949-016-13423/C
; Sequence 13423, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
```

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; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13423
; LENGTH: 69909
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13423

Query Match          2.2%; Score 46; DB 4; Length 69909;
Best Local Similarity 100.0%; Pred. No. 7.3e-09;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 306 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 351
DB 53241 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 53196
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RESULT 11
US-09-949-016-16847/C
; Sequence 16847, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16847
; LENGTH: 98302
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16847

Query Match          2.2%; Score 46; DB 4; Length 98302;
Best Local Similarity 100.0%; Pred. No. 7e-09;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 306 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 351
DB 13787 GGTTCGTCATGTTGTCAGGCTGCTTGAACCTCTGGGCTCAAG 13742
```

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RESULT 12
US-09-949-016-15078/C
; Sequence 15078, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
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; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15078
; LENGTH: 114426
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-15078

Query Match
Best Local Similarity 100.0%; Score 46; DB 4; Length 114426;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 360 CCACCTCAGCCTCCCAAGTGTAGATTATAGGATGACCACTG 405
Db 580 CCACCTCAGCCTCCCAAGTGTAGATTATAGGATGACCACTG 535

RESULT 13
; US-09-513-999C-16098
; Sequence 16098, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 16098
; LENGTH: 73
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-513-999C-16098

Query Match
Best Local Similarity 100.0%; Score 45; DB 4; Length 73;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1398 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 1442
Db 20 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 64

RESULT 14
; US-09-513-999C-16110
; Sequence 16110, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
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; SEQ ID NO 16110
; LENGTH: 74
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-513-999C-16110

Query Match
Best Local Similarity 100.0%; Score 45; DB 4; Length 74;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1398 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 1442
Db 21 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 65

RESULT 15
; US-09-513-999C-29990
; Sequence 29990, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 29990
; LENGTH: 123
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 16
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 17
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: v=a or c or g
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: k=g or t
; US-09-513-999C-29990

Query Match
Best Local Similarity 100.0%; Score 45; DB 4; Length 123;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1398 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 1442
Db 20 GCCTGTAGTCCAGCTACTCGGAGGCTGAGGTGGAGGATCGCT 64

Search completed: September 2, 2005, 08:52:36
Job time : 381 secs
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